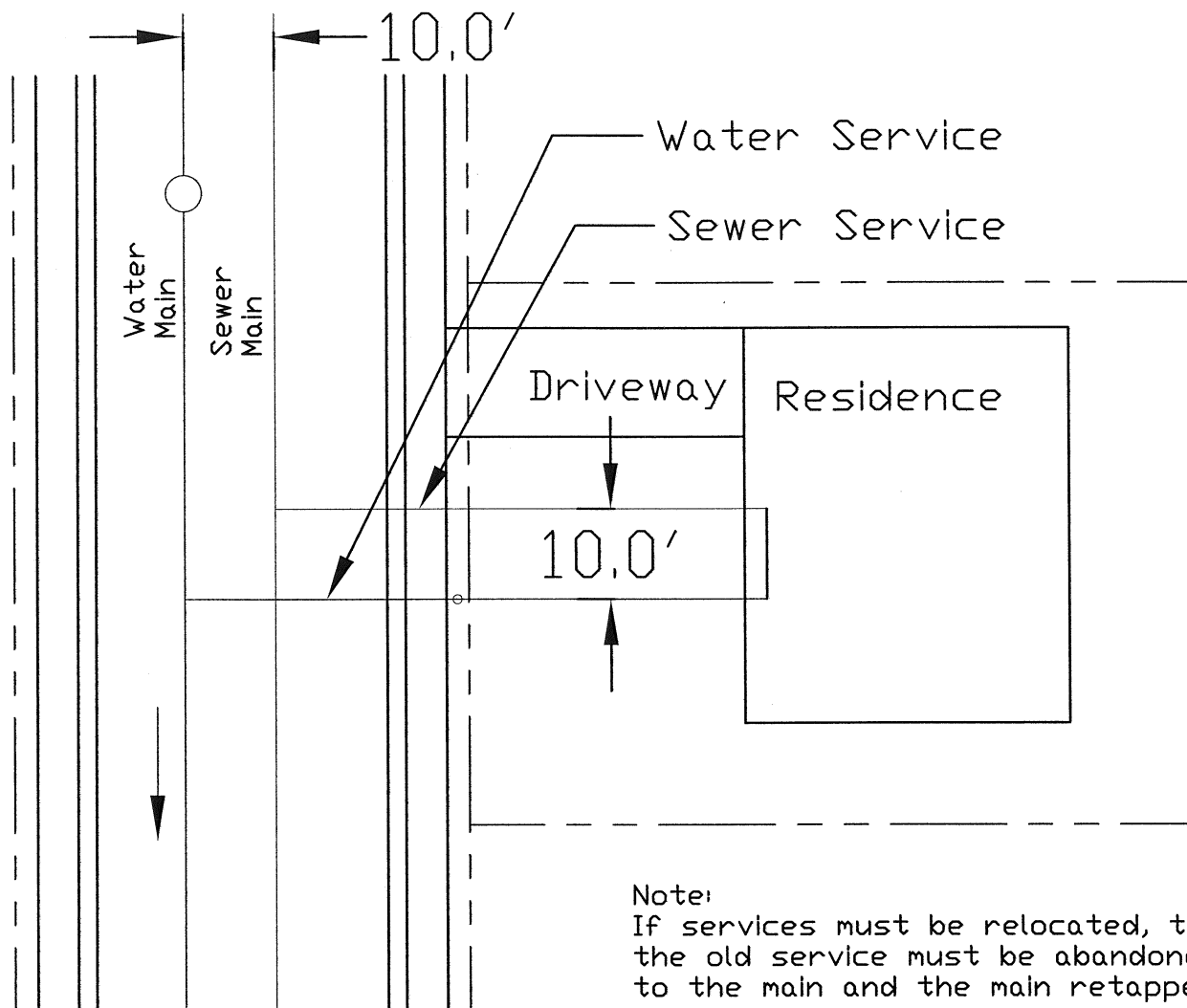


PLACE WATER METER PITS A MINIMUM OF 15' APART
TO PREVENT CROSS TALK BETWEEN METERS.

<p>CITY OF BRIGHTON</p> <p>DEPARTMENT OF PUBLIC WORKS</p> <p>TYPICAL HOUSE SERVICE CONNECTION IN CUL-DE-SACS ONLY</p>	<p>DATE 10/29/01 REVISED BY SAK</p> <p>DRAWING NUMBER 4.01</p>
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Service locations may vary to meet various house configurations.

Water service shall be placed on the down hillside of sanitary sewer service and with 10' min. separation.

No more than two 1/8 bends (90° total) shall be permitted in any sanitary sewer service.

There shall be at least 10' separation between water meter pits.

Services shall enter lots at a perpendicular angle from the mains except in cul-de-sacs.

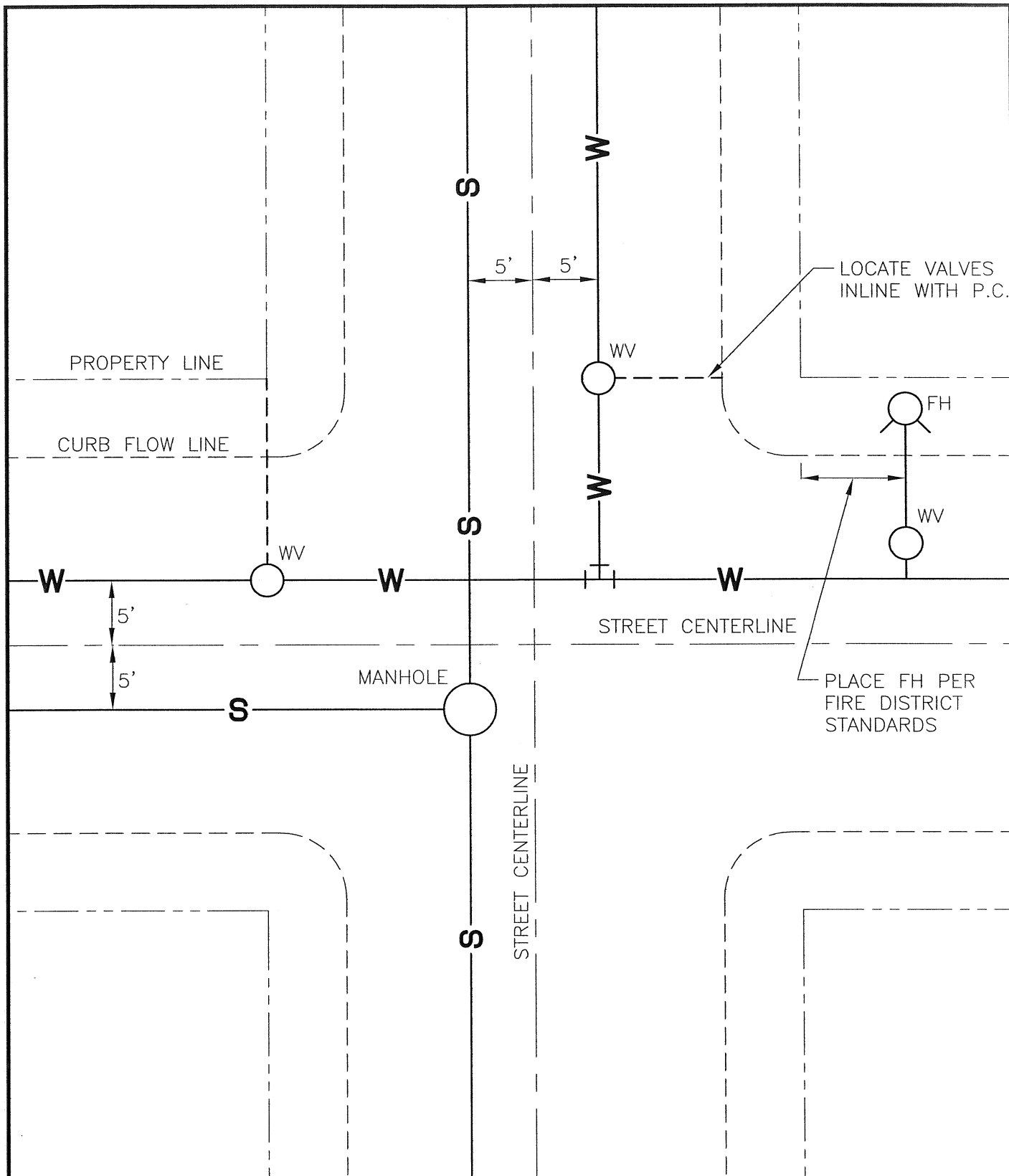
Place "V" on the curb face to mark water service locations and place a "X" on the curb face to mark sanitary sewer service locations.



TYPICAL
HOUSE
SERVICE

DATE 10/29/01
REVISED BY SAK

DRAWING
NUMBER
4.02



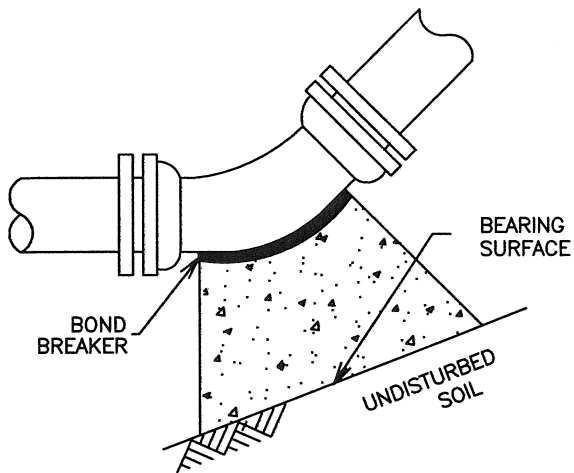
WATER AND SANITARY SEWER MUST BE SEPERATED BY 10' MINIMUM DISTANCE.

CITY OF
BRIGHTON
DEPARTMENT OF PUBLIC
WORKS

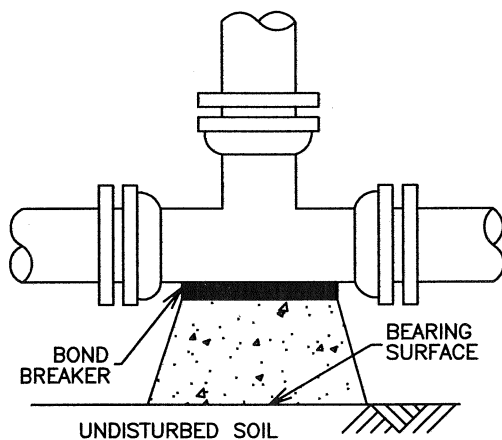
TYPICAL
RESIDENTIAL
UTILITIES
LOCATIONS

DATE 10/29/01
REVISED BY SAK

DRAWING
NUMBER
4.03



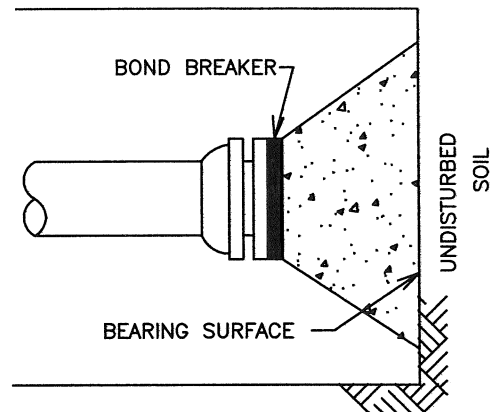
11 $\frac{1}{4}$ °, 22 $\frac{1}{2}$ °, 45° AND 90° BENDS



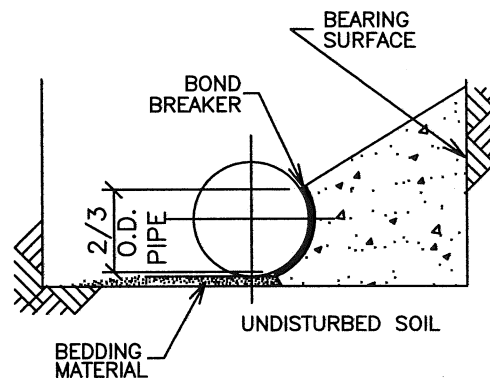
TEE

NOTES:

- 1.) BEARING SURFACES SHOWN IN CHART ARE MINIMUM.
- 2.) BASED ON 150 PSI INTERNAL PIPE PRESSURE PLUS WATER HAMMER.
4", 6", 8" AND 12" WATER HAMMER = 110 P.S.I.
16", 20" AND 24" WATER HAMMER = 70 P.S.I.
- 3.) SEE SECTION 6.42 AND SECTIONS 8.19 OF THE ENGINEERING STANDARDS.
- 4.) BASED ON 3,000 psf SOIL BEARING CAPACITY.
- 5.) NA = NOT APPLICABLE.



DEAD END

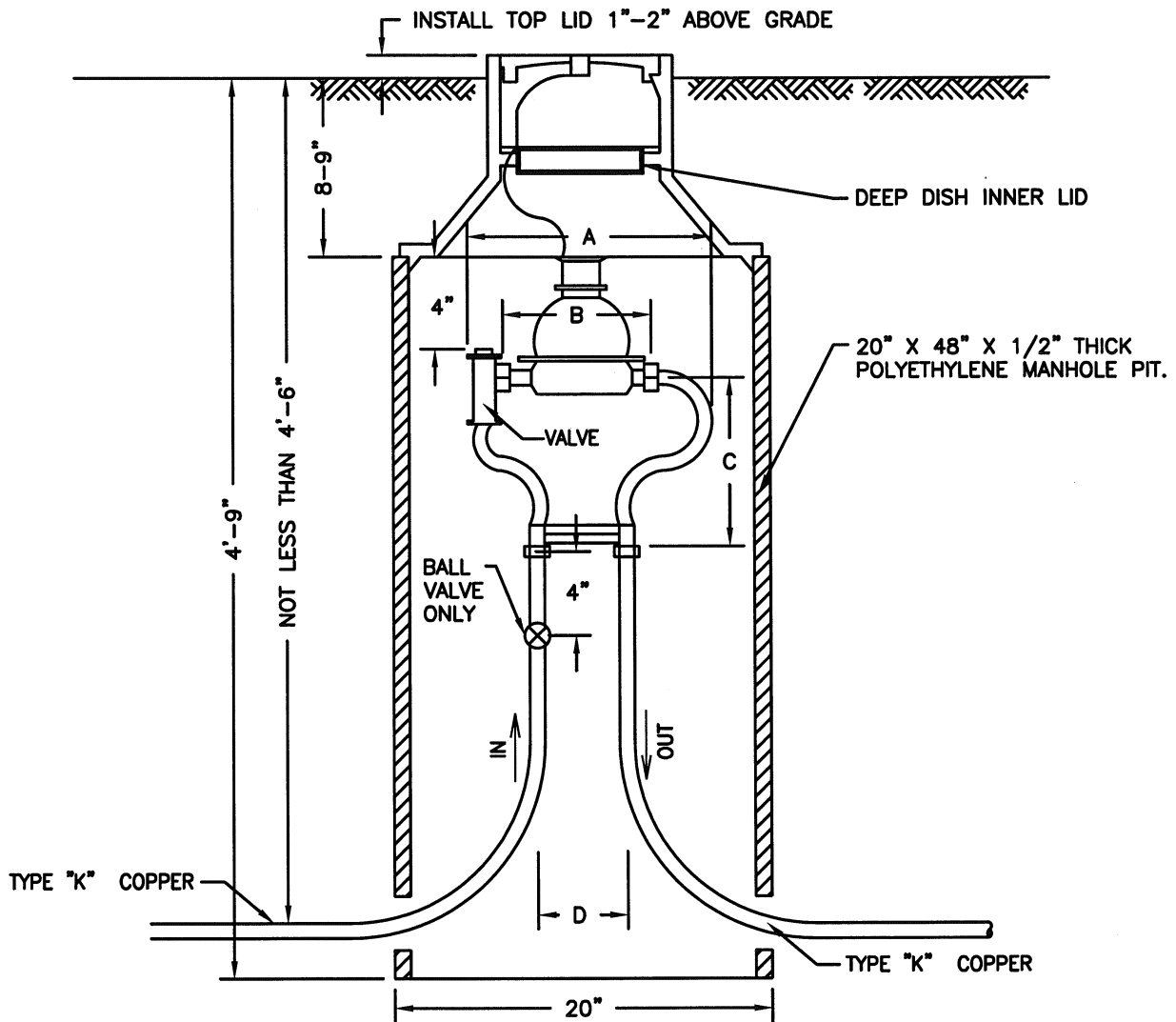


TYPICAL CROSS SECTION

MINIMUM BEARING SURFACE AREA
(IN SQUARE FEET)

SIZE OF PIPE	BENDS			TEES & DEAD ENDS
	22 $\frac{1}{2}$ °	45°	90°	
6"	2.0	2.0	3.6	2.5
8"	2.0	3.4	6.2	4.4
10"	2.8	5.5	10.2	7.2
12"	4.0	7.9	14.5	10.3
14"	5.4	10.7	19.6	13.9
16"	7.0	13.8	25.4	18.0

<p>CITY OF BRIGHTON</p> <p>DEPARTMENT OF PUBLIC WORKS</p> <p>THRUST BLOCK DETAILS</p>	<p>DATE 10/30/01 REVISED BY SAK</p> <p>DRAWING NUMBER 4.05</p>
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PLACE METERS WITH A
MINIMUM SEPARATION OF 10'

MASONRY BASE FOR STABILITY

NOT FOR INSTALLATION IN
DRIVEWAYS

METER SIZE	A	B	C	D
3/4" x 3/4"	14-1/4"	9"	9"±	5"
1"	17-1/4"	10-3/4"	10"±	6"



METER
INSTALLATION IN
PIT FOR
3/4" & 1" SERVICES

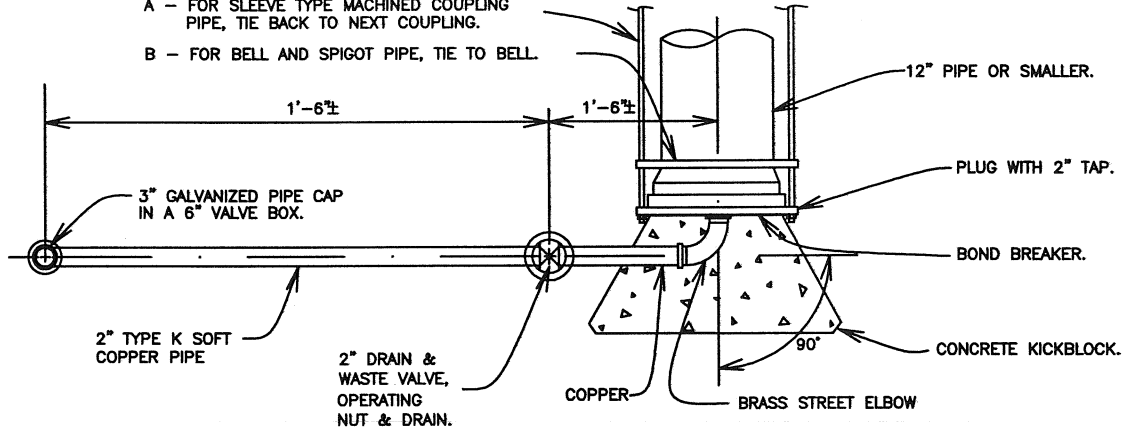
DATE 10/2/02
REVISED BY AJV

DRAWING
NUMBER
4.06

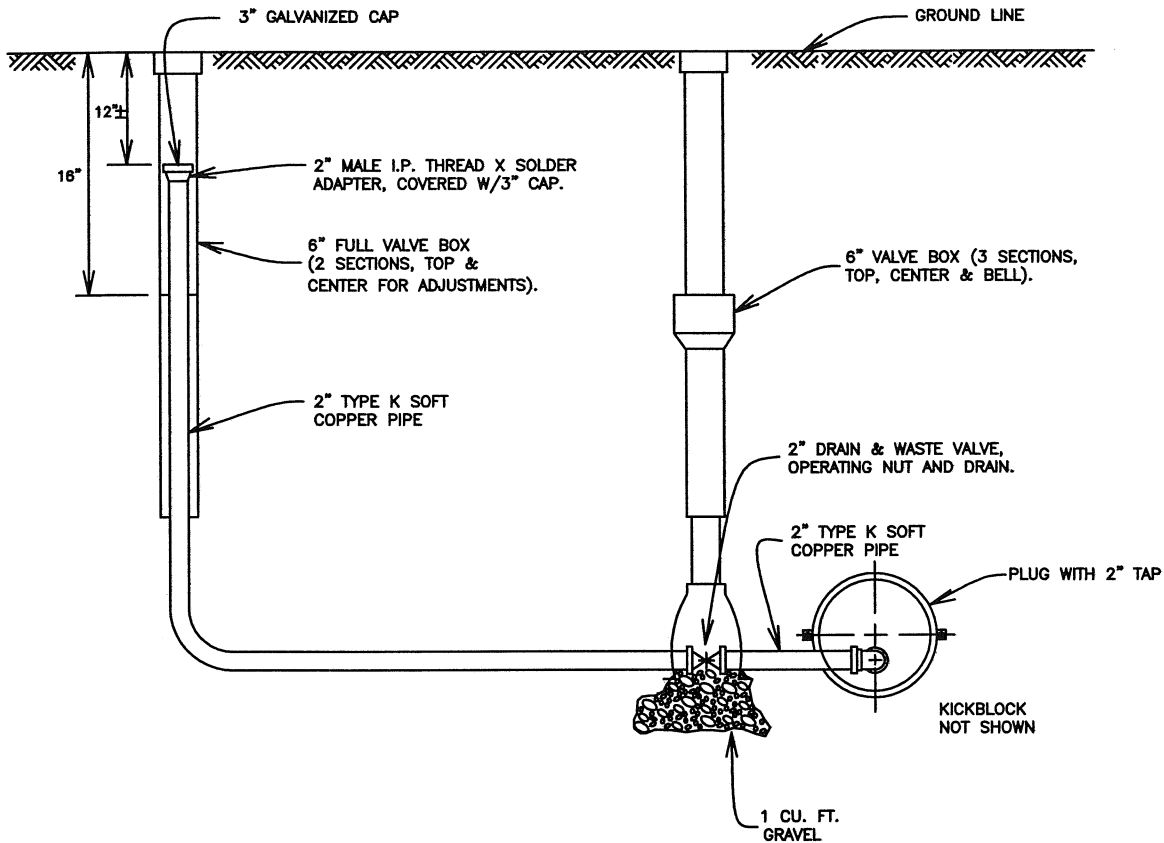
NOTE:

PLUG SHALL BE MECHANICALLY RESTRAINED:

- A - FOR SLEEVE TYPE MACHINED COUPLING PIPE, TIE BACK TO NEXT COUPLING.
- B - FOR BELL AND SPIGOT PIPE, TIE TO BELL.



PLAN



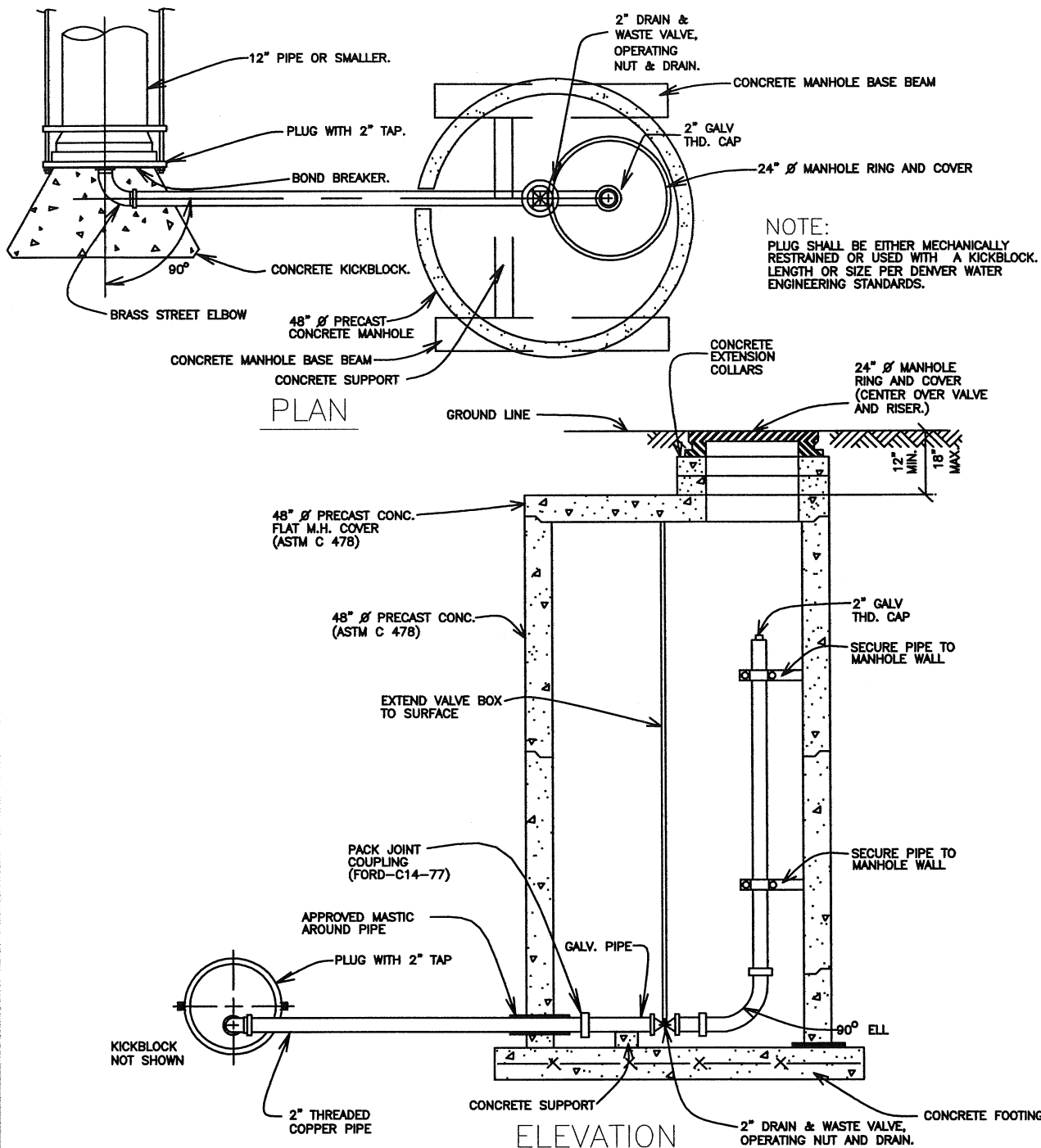
ELEVATION



TEMPORARY 2"
BLOW-OFF
INSTALLATION FOR
12" & SMALLER PIPE

DATE 10/30/01
REVISED BY SAK

DRAWING
NUMBER
4.07



NOTE:
PLUG SHALL BE EITHER MECHANICALLY RESTRAINED OR USED WITH A KICKBLOCK. LENGTH OR SIZE PER DENVER WATER ENGINEERING STANDARDS.

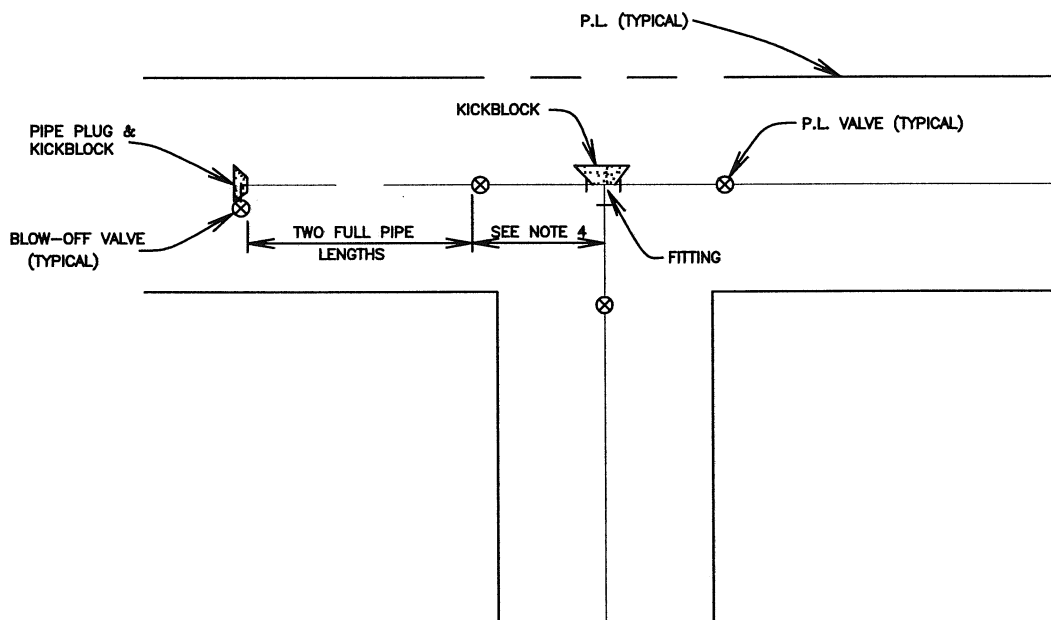
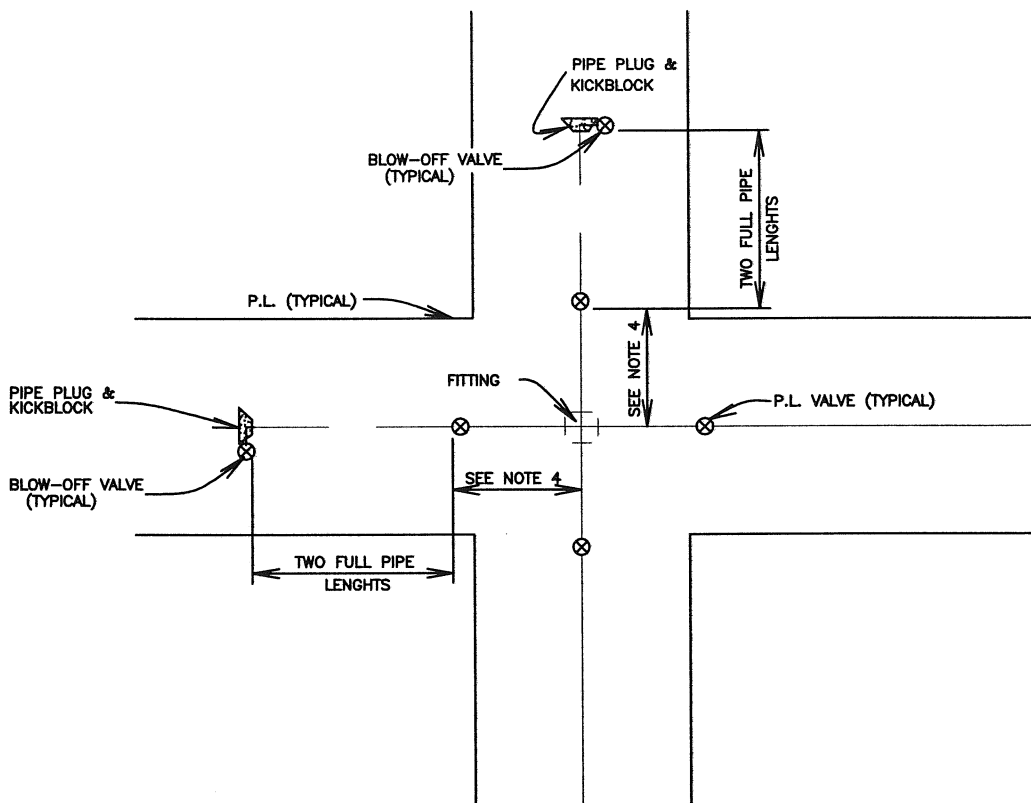
NOTE:
WITH PRIOR APPROVAL OF DENVER WATER, A FIRE HYDRANT MAY BE SUBSTITUTED FOR THE PERMANENT 2" BLOWOFF. SEE SHEET 15 FOR EXTENSION GUIDE.

CITY OF
BRIGHTON
DEPARTMENT OF PUBLIC
WORKS

PERMANENT 2"
BLOW-OFF
INSTALLATION FOR
12" & SMALLER PIPE

DATE 10/30/01
REVISED BY SAK

DRAWING
NUMBER
4.08



NOTES:

- 1- LAY PIPE FROM FITTING TO P.L.
- 2- INSTALL VALVE AT P.L.
- 3- STUB OUT TWO FULL PIPE LENGTHS FROM VALVE, PLUG END OF PIPE. INSTALL BLOWOFF AND KICKBLOCK.
- 4- ALTERNATIVE TO NOTE 3: PROVIDE RESTRAINED JOINTS FROM VALVE TO FITTING AND ELIMINATE THE TWO FULL LENGTHS OF PIPE OUT OF VALVE AND TEMPORARY BLOW-OFF.

CITY OF
BRIGHTON
DEPARTMENT OF PUBLIC
WORKS

PIPING AT STREET
INTERSECTIONS &
FUTURE
CONNECTIONS

DATE 10/30/01
REVISED BY SAK

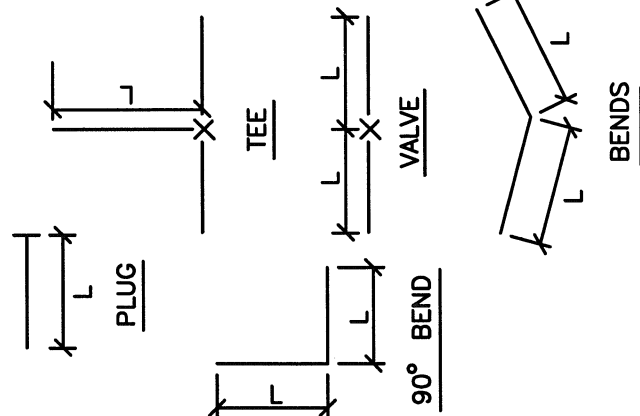
DRAWING
NUMBER
4.11

DRAWING
NUMBER
4,14

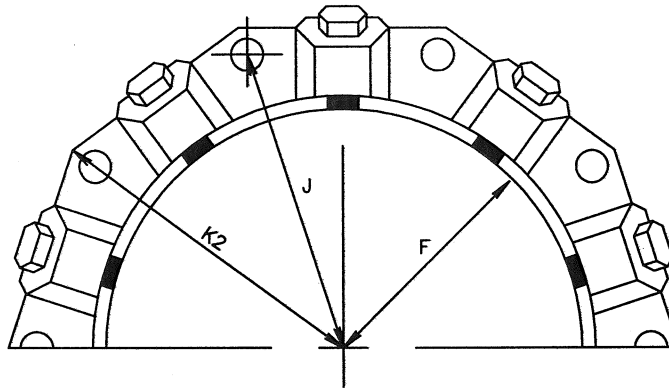
LENGTH OF RESTRAINED PIPE

PIPE SIZE	4"			6"			8"			12"			16"			20"			24"		
	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G
90° BEND	3/4"	30'	M.S.	3/4"	45'	M.S.	3/4"	60'	M.S.	3/4"	86'	H.S.	1"	108'	H.S.	1 1/4"	132'	H.S.	—	155'	—
TEE, PLUG OR VALVE																					
45° BEND	3/4"	9'	M.S.	3/4"	13'	M.S.	3/4"	18'	M.S.	3/4"	25'	M.S.	1"	32'	M.S.	3/4"	39'	H.S.	—	45'	—
22 1/2° BEND	3/4"	1'	M.S.	3/4"	4'	M.S.	3/4"	5'	M.S.	3/4"	7'	M.S.	3/4"	8'	M.S.	3/4"	10'	M.S.	—	12'	—
11 1/4° BEND	—	—	—	—	—	—	3/4"	1'	M.S.	3/4"	2'	M.S.	3/4"	2'	M.S.	3/4"	3'	M.S.	—	3'	—

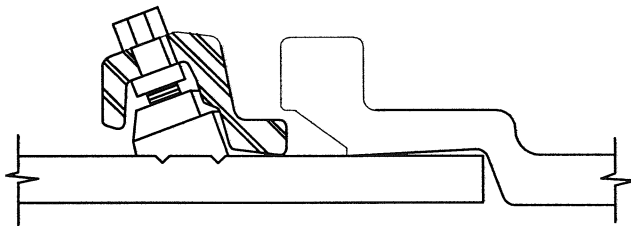
NOTES:



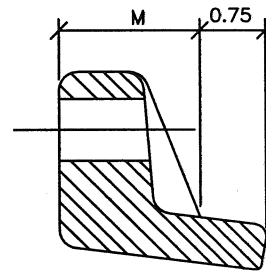
- 1.) LENGTH OF RESTRAINED PIPE MEASURED EACH WAY FROM VALVES AND BENDS.
- 2.) D=DIAMETER, L=LENGTH, G=GRADE
- 3.) M.S.=MILD STEEL, H.S.=HIGH STRENGTH.
- 4.) MINIMUM 4.5' GROUND COVER REQUIRED.
- 5.) BASED ON 150 PSI INTERNAL PRESSURE.
- 6.) M.S. = MILD STEEL ROD ASTM A36.
- 7.) H.S. = HIGH STRENGTH ROD ASTM A193 GRADE B7.
- 8.) NUTS SHALL BE ASTM A307 GRADE A OR B HEXAGON HEAVY SERIES, HIGH STRENGTH NUTS SHALL BE ASTM A194, GRADE 2H.
- 9.) SEE TIE ROD DETAIL DRAWING. ALSO, TIE ROD COUPLING DETAILS, CLAMP DETAILS AND SET CLAMP DETAILS.
- 10.) LENGTH REFERS TO THE AMOUNT OF PIPE WHICH MUST BE RESTRAINED TOGETHER AND IS NOT NECESSARILY THE LENGTH OF THE RODS.
- 11.) LENGTH OF RESTRAINED PIPE CHART IS ALSO FOR THE LENGTH OF JOINT RESTRAINT FOR MEALUGS.
- 12.) TEE AND CROSS MUST BE RESTRAINED IN ALL APPLICABLE DIRECTIONS.



MECHANICAL JOINT RESTRAINT



WEDGE DETAIL



BOLT HOLE DETAIL

DIMENSIONS

	NOMINAL PIPE SIZE	NO. OF BOLTS	NO. OF WEDGES	K2 INCHES	J INCHES	F INCHES	M INCHES	
P V C	4"	2	2					P V C
	6"	6	3	11.12	9.50	7.00	0.88	
	8"	6	4	13.37	11.75	9.15	1.00	
	10"	8	6	15.62	14.00	11.20	1.00	
	12"	8	8	17.88	16.25	13.30	1.25	
D I	4"	4	2					D I
	6"	6	3	11.12	9.50	7.00	0.88	
	8"	6	4	13.37	11.75	9.15	1.00	
	10"	8	6	15.62	14.00	11.20	1.00	
	12"	8	8	17.88	16.25	13.30	1.25	

NOTES:

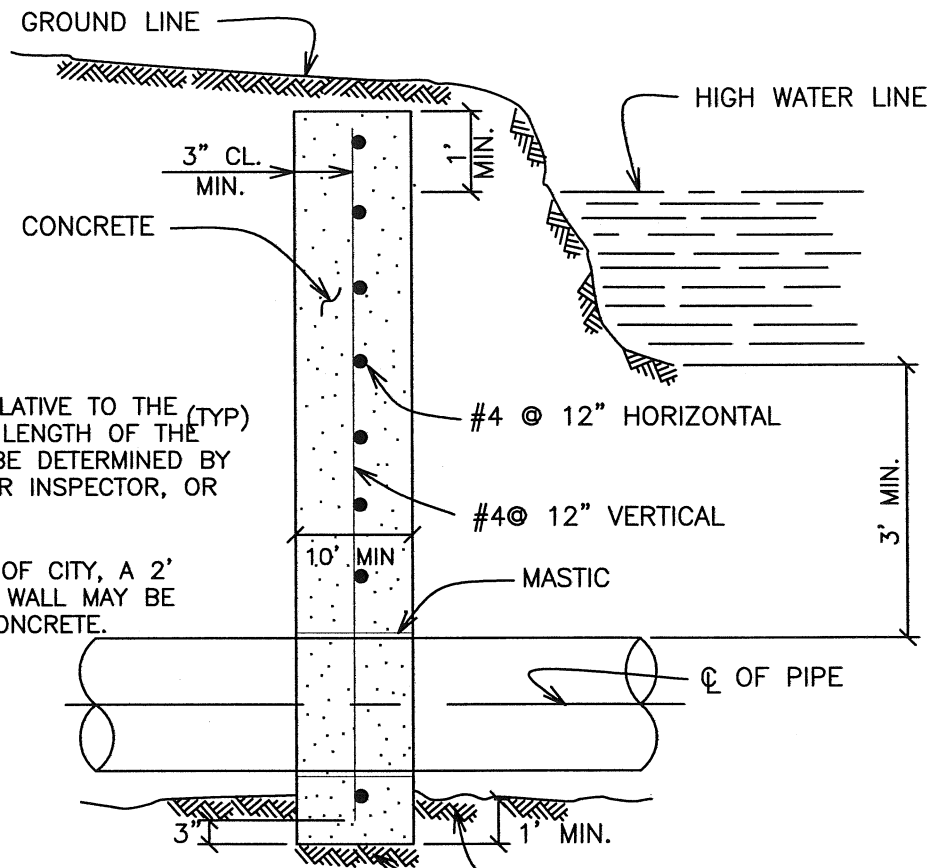
- 1.) REFER TO MS-28 OR SECTION 6.05 PARAGRAPH D.
- 2.) DIMENSIONS FOR 16" AND 20" D.I. PIPE NOT SHOWN.
- 3.) OTHER MECHANICAL JOINT RESTRAINT DEVICES MUST BE APPROVED BEFORE INSTALLATION.



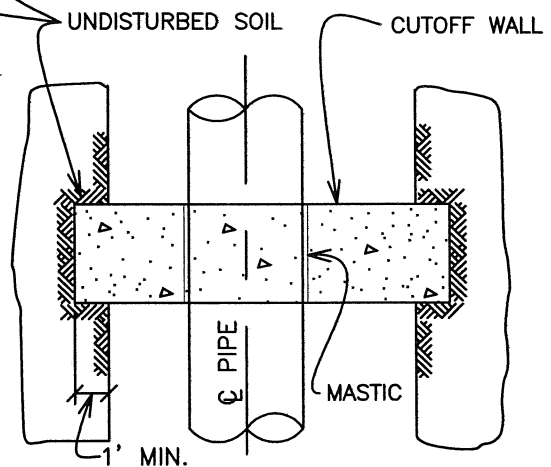
MECHANICAL
JOINT RESTRAINT
DETAILS

DATE 10/30/01
REVISED BY SAK

DRAWING
NUMBER
4.21

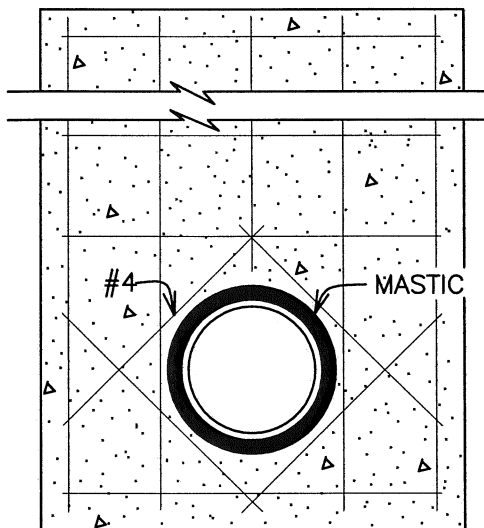


SIDE VIEW



TOP VIEW

NOTE:
REINFORCEMENT
NOT SHOWN.



FRONT VIEW

NOTE:

1. THE LOCATION RELATIVE TO THE CANAL, HEIGHT AND LENGTH OF THE CUTOFF WALL WILL BE DETERMINED BY THE BRIGHTON WATER INSPECTOR, OR OWNER.

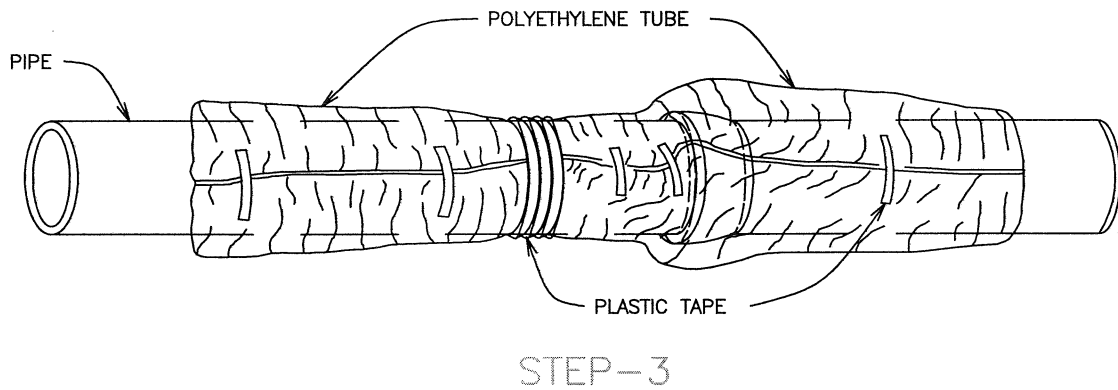
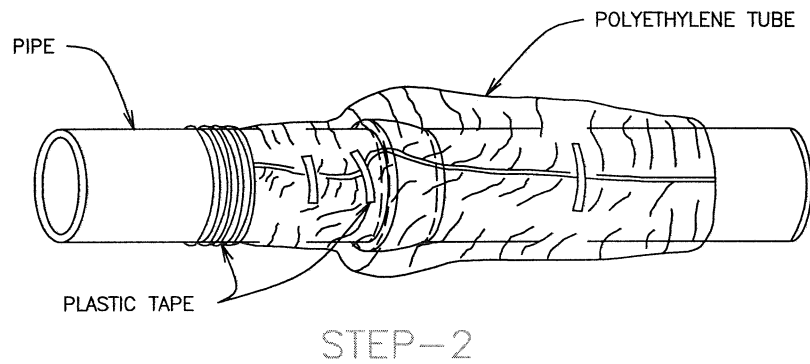
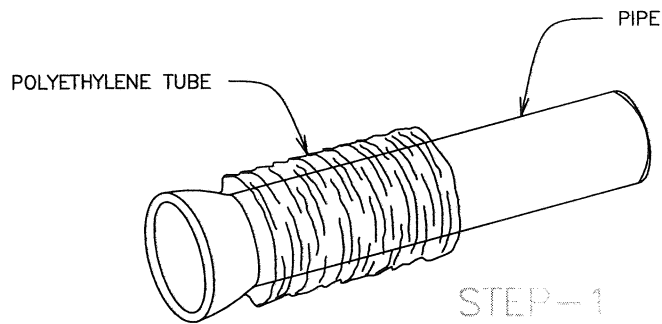
2. UPON APPROVAL OF CITY, A 2' THICK CLAY CUTOFF WALL MAY BE SUBSTITUTED FOR CONCRETE.

CITY OF
BRIGHTON
DEPARTMENT OF PUBLIC
WORKS

TYPICAL CUTOFF
WALL FOR CANAL
CROSSING

DATE 10/30/01
REVISED BY SAK

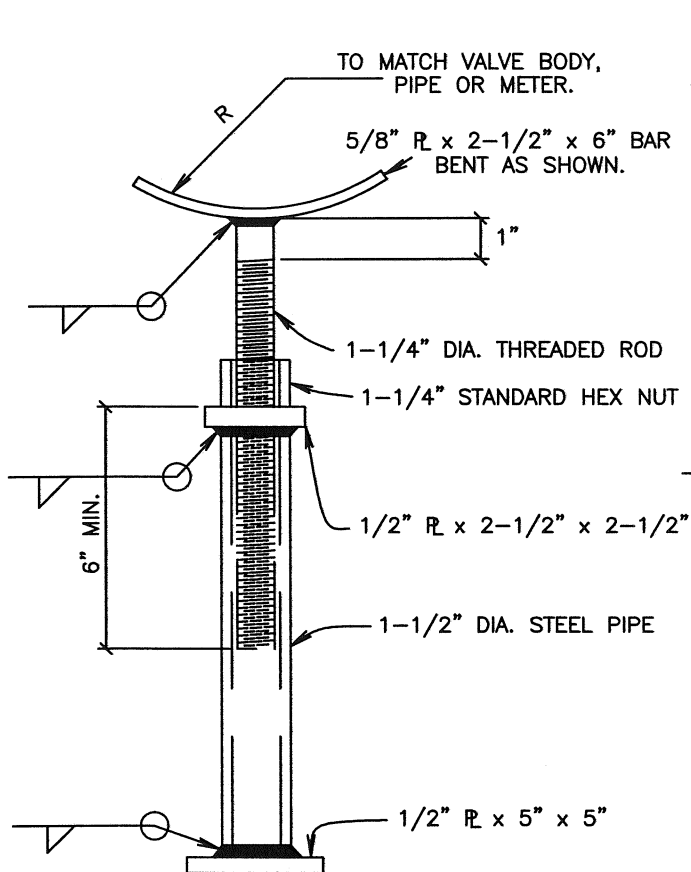
DRAWING
NUMBER
4.28



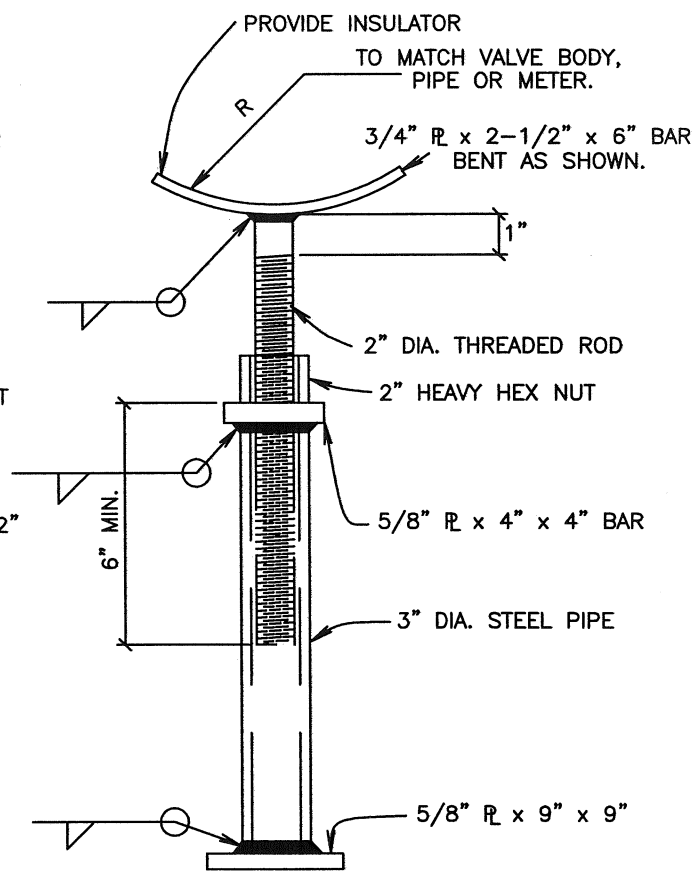
FIELD INSTALLATION-POLYETHYLENE WRAP

- STEP-1 PLACE TUBE OF POLYETHYLENE MATERIAL AROUND PIPE PRIOR TO LOWERING PIPE INTO TRENCH.
- STEP-2 PULL THE TUBE OVER THE LENGTH OF THE PIPE. TAPE TUBE TO PIPE AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH THREE CIRCUMFERENTIAL TURNS OF TWO-INCH WIDE PLASTIC TAPE TO HOLD PLASTIC TUBE AROUND SPIGOT END.
- STEP-3 ADJACENT TUBE OVERLAPS FIRST TUBE AND IS SECURED WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE WILL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED INTO AN OVERLAP ON TOP OF THE PIPE AND HELD IN PLACE BY MEANS OF PIECES OF THE PLASTIC TAPE AT APPROXIMATELY THREE TO FIVE FOOT INTERVALS.

<p>CITY OF BRIGHTON</p> <p>DEPARTMENT OF PUBLIC WORKS</p> <p>POLYETHYLENE WRAP</p>	<p>DATE 10/30/01 REVISED BY SAK</p> <p>DRAWING NUMBER 4.31</p>
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ADJUSTABLE-SUPPORT
(STANDARD)



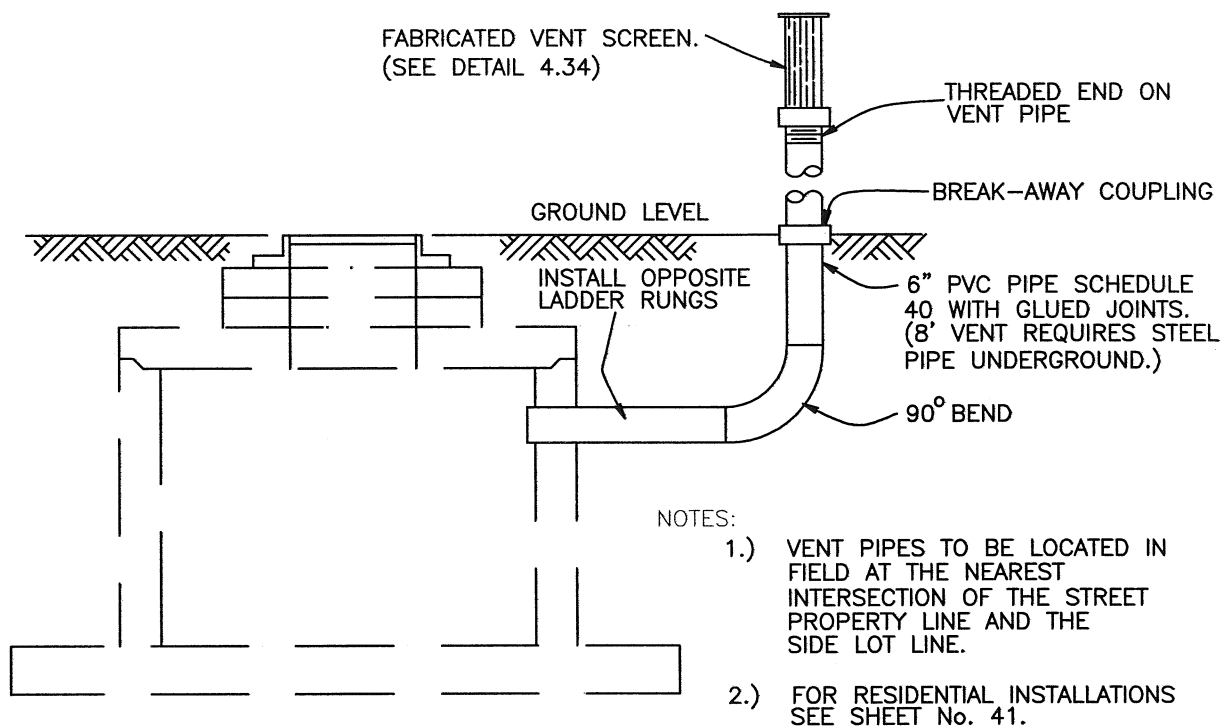
ADJUSTABLE-SUPPORT
(HEAVY DUTY)

CITY OF
BRIGHTON
DEPARTMENT OF PUBLIC
WORKS

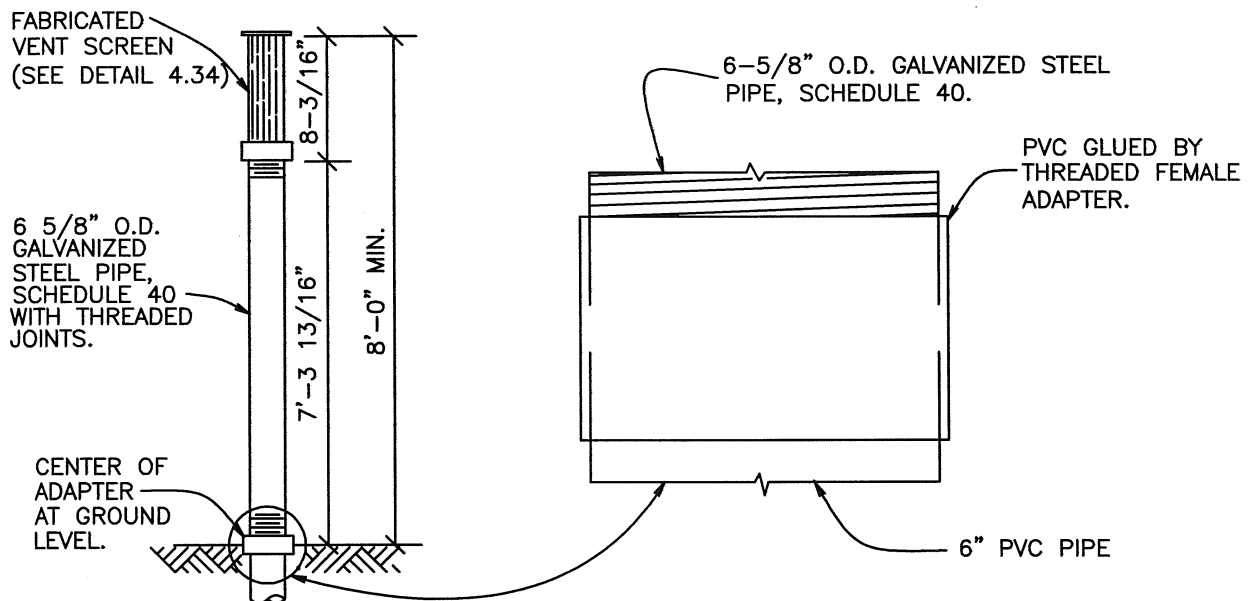
ADJUSTABLE
STEEL PIPE
VALVE SUPPORT

DATE 10/30/01
REVISED BY SAK

DRAWING
NUMBER
4.32



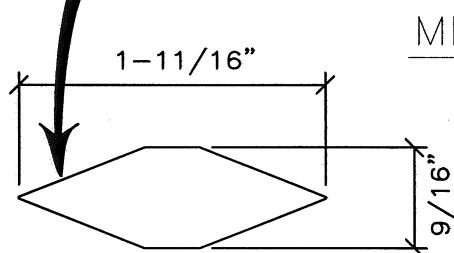
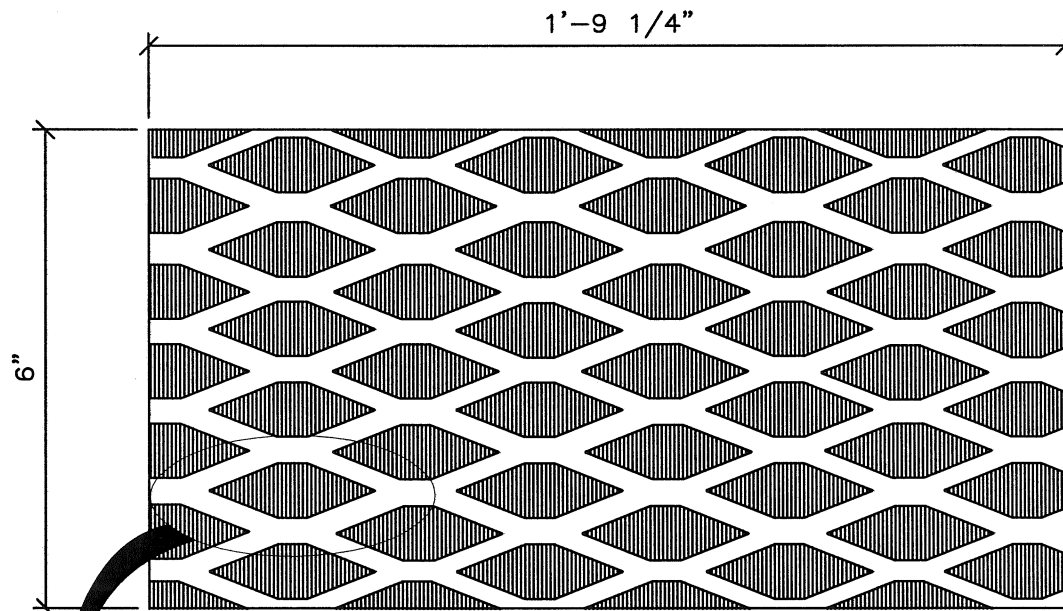
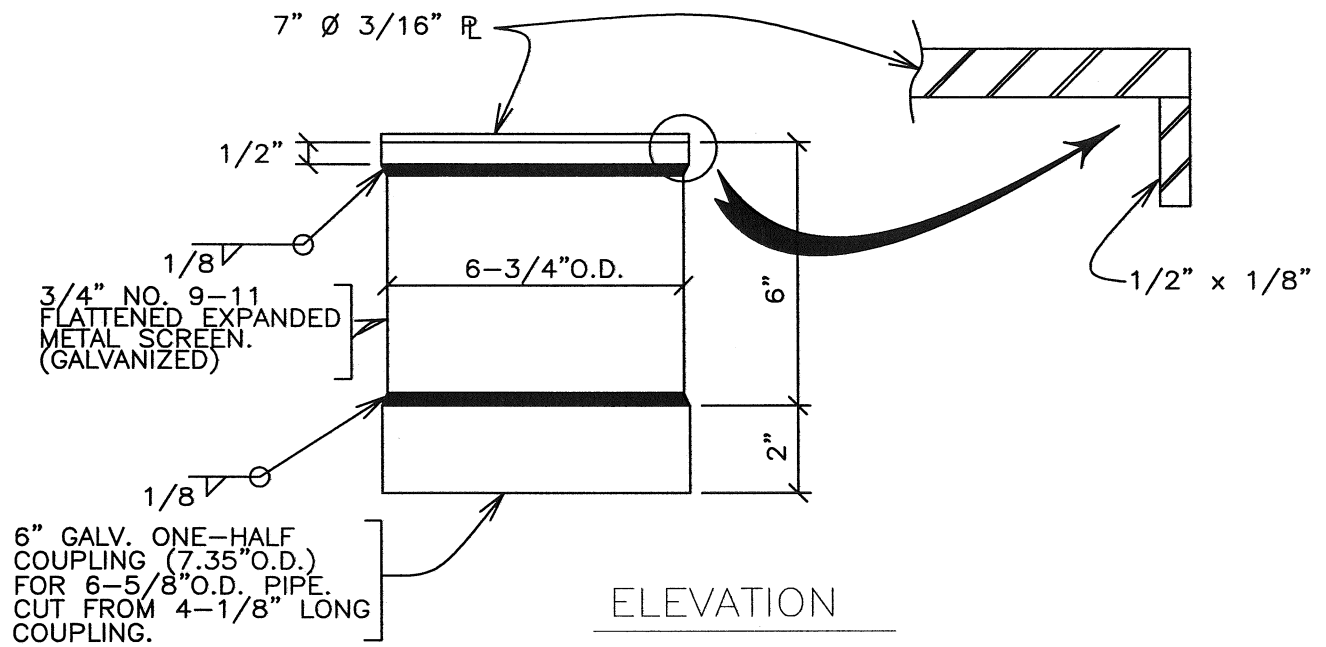
VENT PIPE INSTALLATION



VENT PIPE AND BREAK-AWAY COUPLING DETAILS

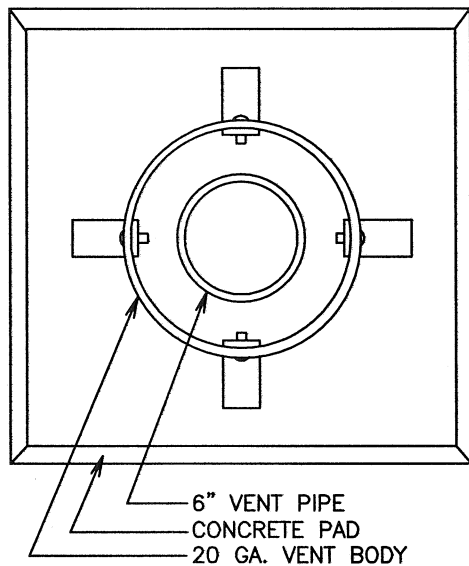
NOTE:
VENT PIPE MUST BE LOCATED IN CLEAR ZONE FROM TRAFFIC. LOCATION MUST BE APPROVED BY THE CITY.

<p>CITY OF BRIGHTON</p> <p>DEPARTMENT OF PUBLIC WORKS</p> <p>VENT PIPE INSTALLATION & DETAILS</p>	<p>DATE 10/30/01 REVISED BY SAK</p> <p>DRAWING NUMBER 4.33</p>
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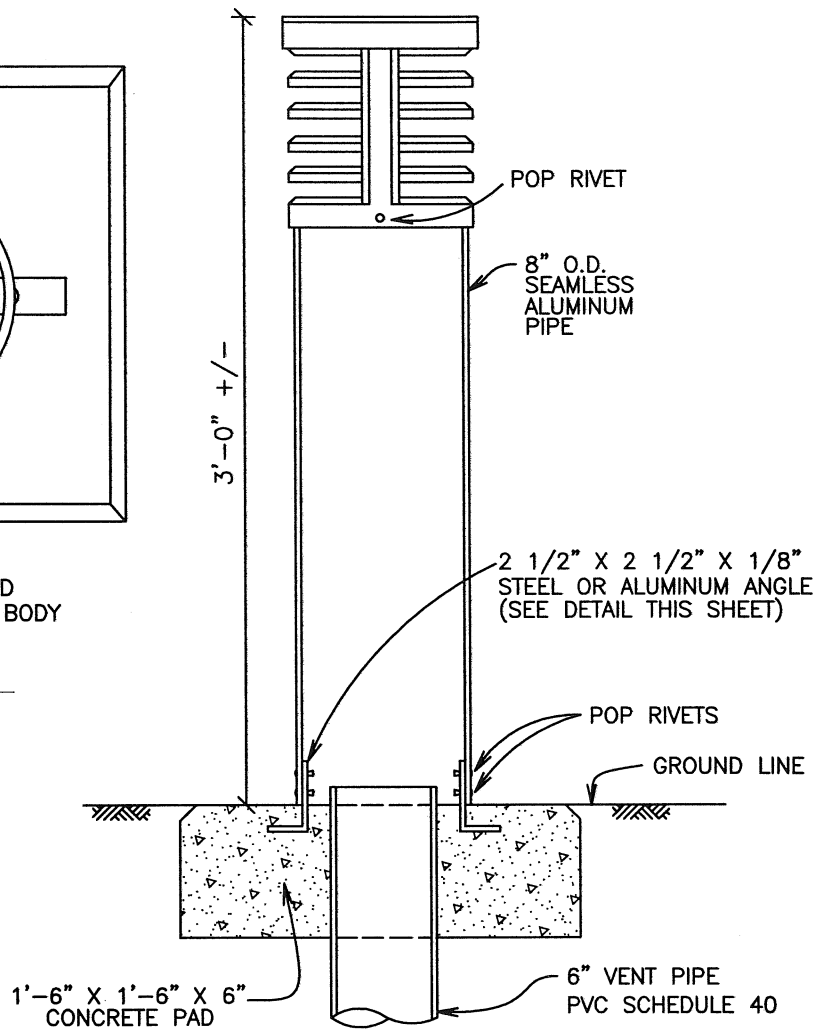


METAL SCREEN

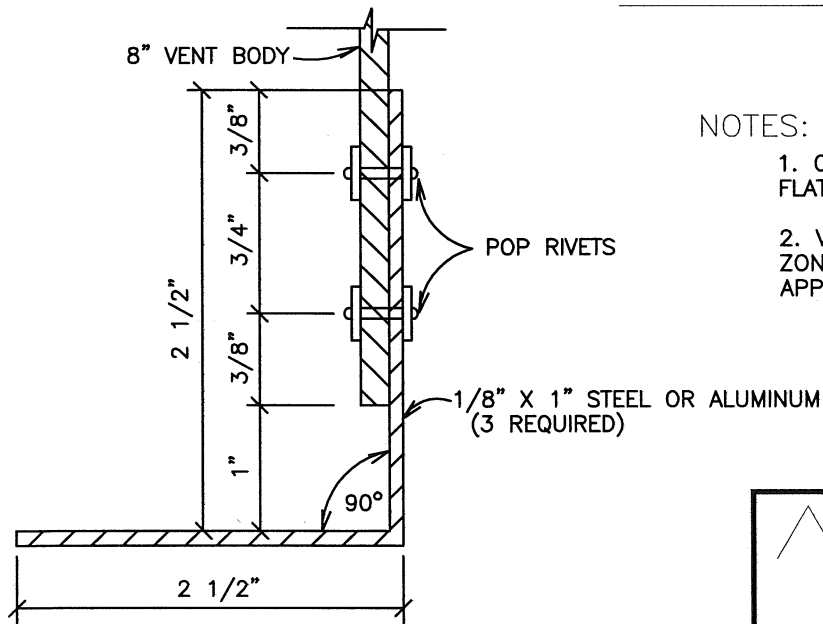
<p>CITY OF BRIGHTON</p> <p>DEPARTMENT OF PUBLIC WORKS</p> <p>6" DIAMETER VENT PIPE SCREEN</p>	<p>DATE 10/30/01 REVISED BY SAK</p> <p>DRAWING NUMBER 4.34</p>
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BASE DETAIL



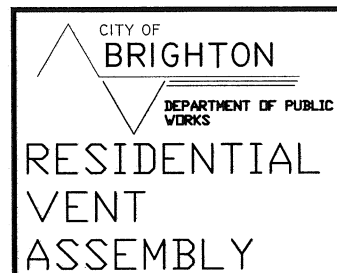
ROUND VENT SCREEN



STEEL OR ALUMINUM ANGLE DETAIL

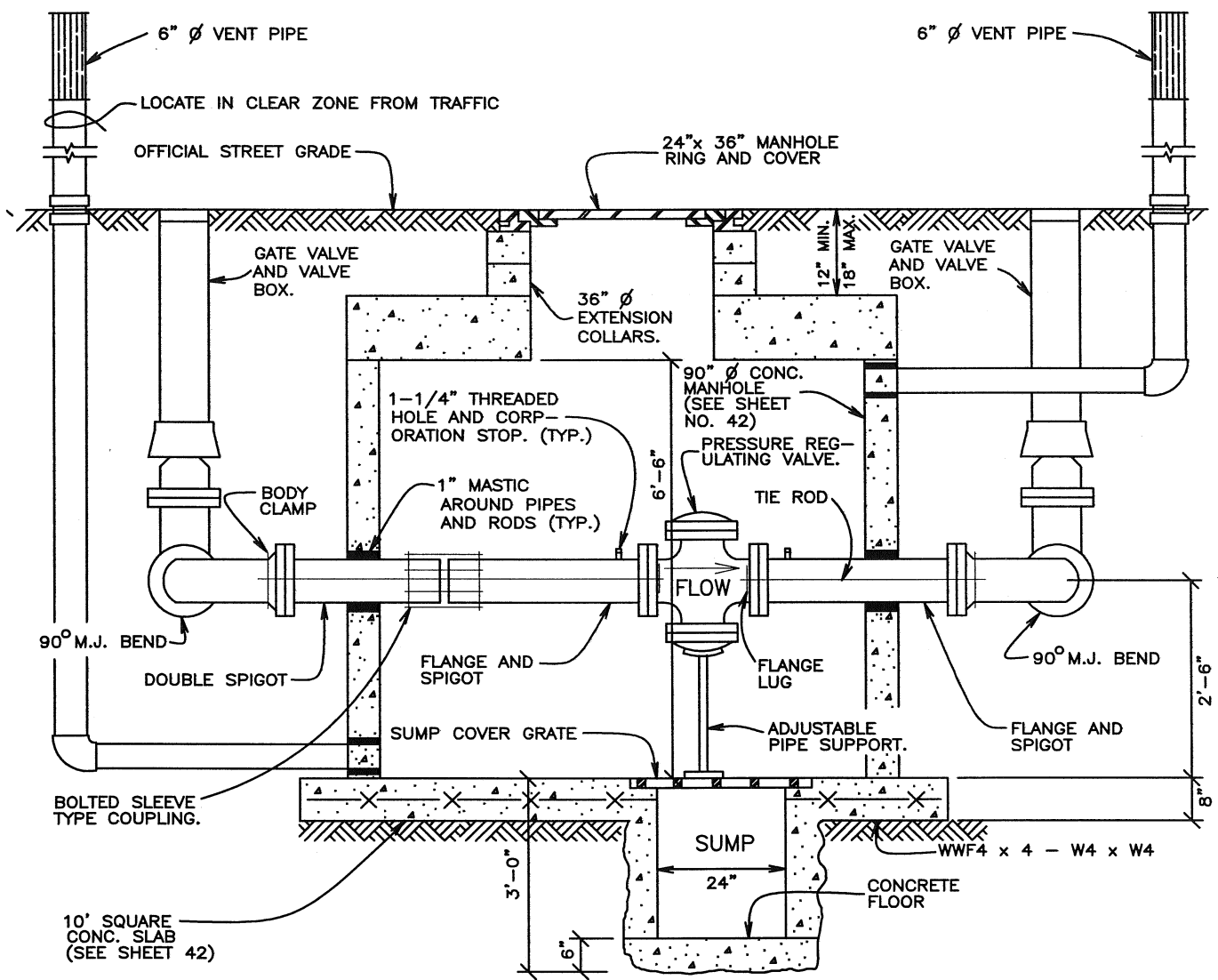
NOTES:

1. COLOR SHALL BE OLIVE GREEN OR FLAT BLACK TO MATCH SURROUNDINGS.
2. VENT PIPE MUST BE LOCATED IN CLEAR ZONE FROM TRAFFIC. LOCATION MUST BE APPROVED BY THE CITY.



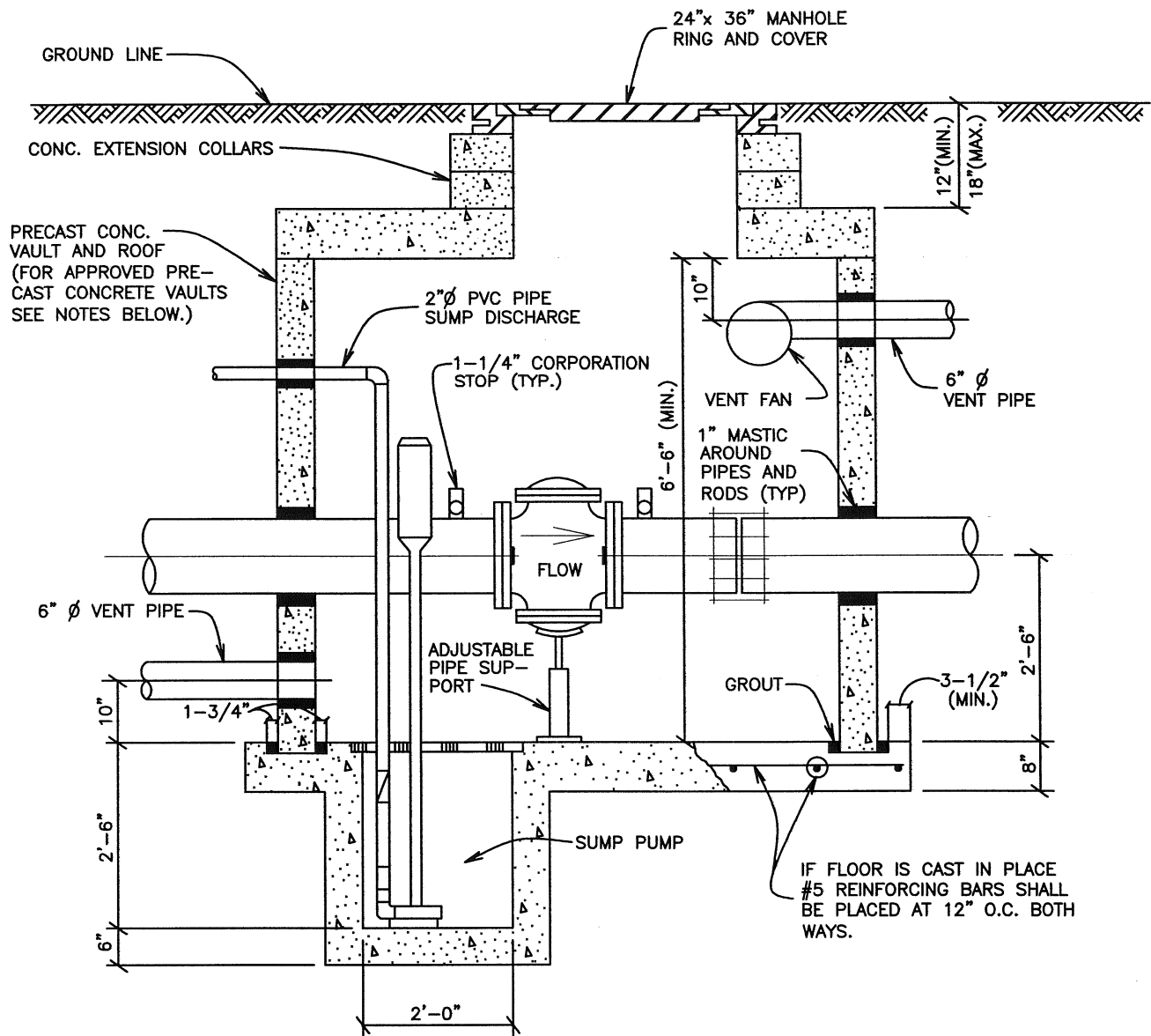
DATE 10/30/01
REVISED BY SAK

DRAWING
NUMBER
4.35



NOTE:
SEE SHEET 42 FOR PLAN VIEW
AND ADDITIONAL NOTES.

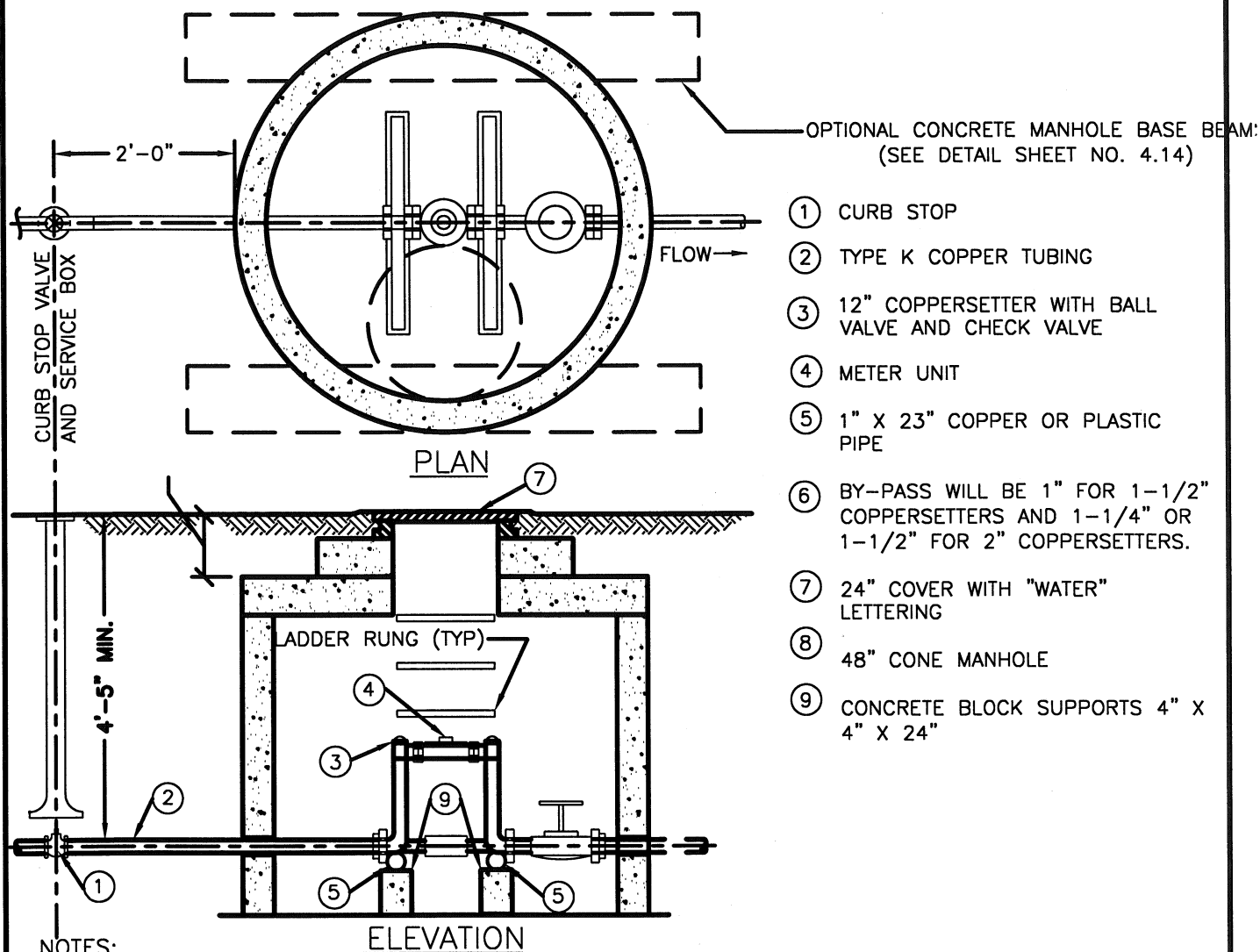
<p>CITY OF BRIGHTON</p> <p>DEPARTMENT OF PUBLIC WORKS</p> <p>PRESSURE REGULATING VALVE MANHOLE INSTALLATION CROSS SECTION</p>	<p>DATE 10/30/01 REVISED BY SAK</p> <p>DRAWING NUMBER 4.37</p>
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NOTES:

- 1.) APPROVED PRECAST CONCRETE VAULTS:
AMCOR CONC. INC.- 10' X 10' X 7' 7080M, 7080-12.
ADAMS CITY MFG.-11' X 12', 6' X 8'-6", 7' X 12'-6"
- 2.) A PERMIT IS REQUIRED FOR SUMP PUMP DISCHARGE TO STORM SEWERS.
- 3.) SEE SHEET 4.38 FOR PLAN VIEW AND ADDITIONAL NOTES.

<p>CITY OF BRIGHTON</p> <p>DEPARTMENT OF PUBLIC WORKS</p> <p>PRESSURE REGULATING VALVE RECTANGULAR VAULT CROSS SECTION</p>	<p>DATE 7/1/98 DRAWN BY KLM</p> <p>DRAWING NUMBER 4.39</p>
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NOTES:

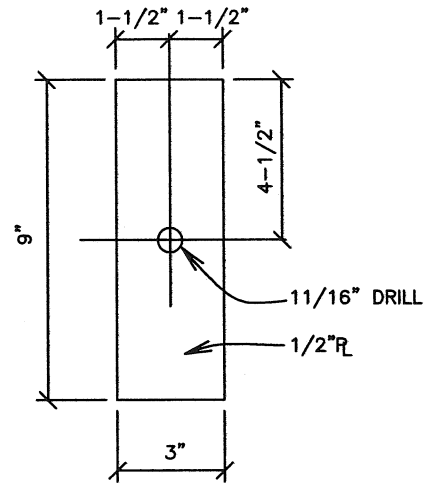
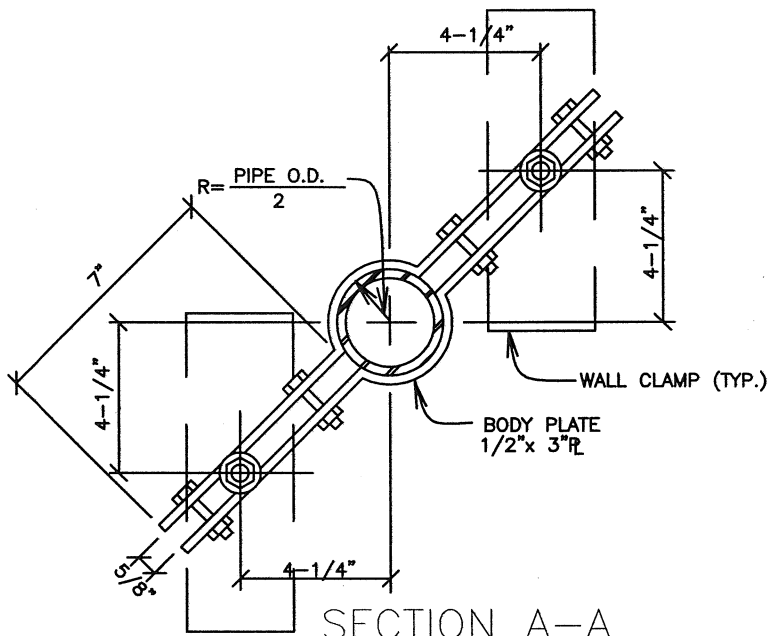
1. METER SETTING MUST BE INSPECTED BEFORE BACKFILLING.
2. BYPASS IS TO BE INSTALLED UNLESS OTHERWISE SPECIFIED.
3. NO CONCRETE TO BE LAID IN FLOOR OF METER PIT.
4. PIPING SHALL BE TYPE "K" COPPER.
5. IF GROUND CONDITIONS ARE UNSTABLE, THE ENGINEER MAY REQUIRE THAT FOOTINGS BE INSTALLED.
6. THE WORD "WATER" SHALL BE CAST ON THE LID.
7. 3/4" OR 1-1/2" ROCK SHALL BE PLACED IN THE FLOOR OF METER PIT 6" THICK.
8. SUPPORT UNDER METER MAY BE BRICK OR CONCRETE BLOCK.
9. COMPRESSION JOINTS MUST BE USED INSIDE VAULT.
10. LOCATION OF METER TO BE APPROVED BY THE CITY ENGINEER OR WATER SUPERVISOR.
11. ALL SETTINGS MUST BE INSPECTED BY THE CITY.
12. IF THE STREET OR GROUND IS NOT TO FINAL GRADE AT THE TIME OF INSTALLATION OF THE METER, THE OWNER MUST RAISE OR LOWER THE METER WHEN THE FINAL GRADE IS ESTABLISHED. SEE STANDARD DETAIL.
13. JOINTS AND GALVANIZED PIPING SHALL NOT BE ALLOWED INSIDE THE METER SETTING.
14. A BYPASS IS REQUIRED ON ALL METERS 1-1/2 INCH AND LARGER UNLESS OTHERWISE SPECIFIED BY CITY ENGINEER.
15. THE SERVICE LINE THROUGH AND ON BOTH SIDES OF THE METER PIT MUST BE OF TYPE K COPPER PIPE.
16. NO CONNECTIONS SHALL BE MADE IN THE METER PIT. ANY CONNECTIONS MUST BE MADE MORE THAN 5 FEET FROM THE METER PIT ON THE DOWNSTREAM SIDE.
17. OTHER METER SETTINGS:
SETTINGS OF METERS OTHER THAN SHOWN AND DETAILED HEREIN SHALL BE CONSIDERED AS NON-STANDARD AND SHALL REQUIRE APPROVAL OF PROPOSED PIPING LAYOUT, METER SETTINGS AND STRUCTURAL DESIGN OF VAULT FOR EACH SEPARATE INSTALLATION.
18. BACKFLOW PREVENTION DEVICES WILL BE REQUIRED.



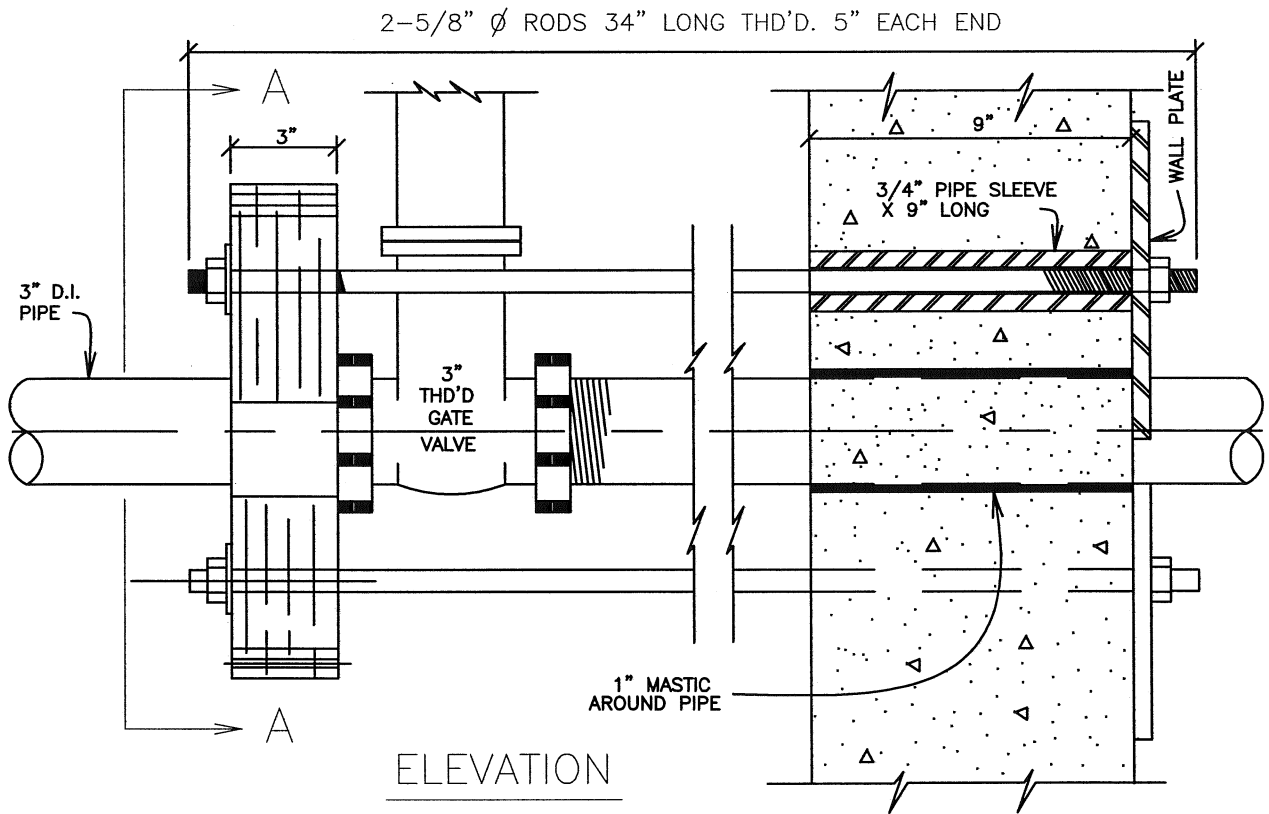
METER INSTALLATION
IN MANHOLE FOR
1-1/2" OR 2"
SERVICES

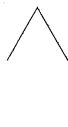
DATE 10/30/01
REVISED BY SAK

DRAWING
NUMBER
4.41

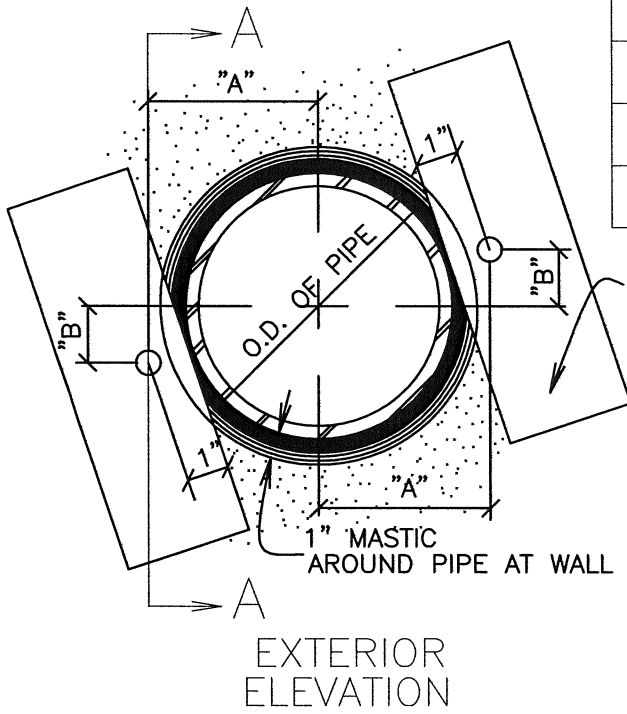


4 REQUIRED

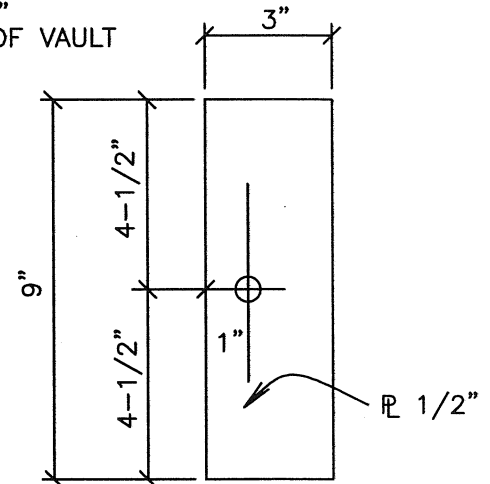


 <p>CITY OF BRIGHTON DEPARTMENT OF PUBLIC WORKS</p>	<p>DATE 7/1/98 DRAWN BY KLM</p>	
	<p>WALL PLATES AND BODY CLAMPS FOR 3" METERS</p>	<p>DRAWING NUMBER</p>
	<p>4.42</p>	

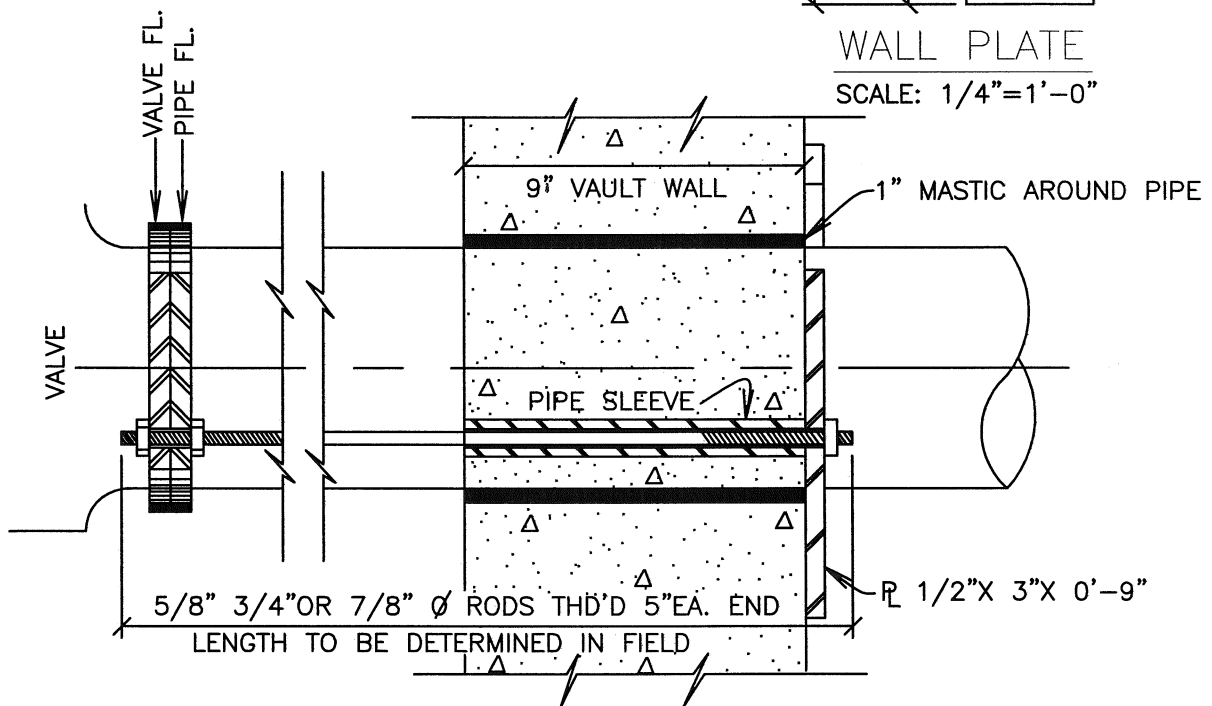
PIPE SIZE	RODS NO. & SIZE	WALL PIPE SLEEVES	"A"	"B"
4"	2- $\frac{5}{8}$ " \varnothing	$\frac{3}{4}$ "X 9"	$3\frac{1}{2}$ "	$1\frac{7}{16}$ "
6"	2- $\frac{5}{8}$ " \varnothing	$\frac{3}{4}$ "X 9"	$4\frac{3}{8}$ "	$1\frac{13}{16}$ "
8"	2- $\frac{3}{4}$ " \varnothing	1"X 9"	$5\frac{7}{16}$ "	$2\frac{1}{4}$ "
10"	2- $\frac{7}{8}$ " \varnothing	1- $\frac{1}{2}$ "X 9"	$5\frac{7}{8}$ "	$3\frac{3}{8}$ "



\varnothing 1- $\frac{1}{2}$ "X 3"X 9"
2-EA. END OF VAULT



WALL PLATE
SCALE: 1/4"=1'-0"



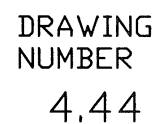
SECTION A-A



WALL PLATES FOR
4", 6", 8" AND 10"
METERS

DATE 7/1/98
DRAWN BY KLM

DRAWING
NUMBER
4.43



METER SIZE	PIPE SIZE DIA.	MANHOLE SUMP																REMARKS	
		A	B	C*	D	E	F	G	H	J	K	L	M	N	W	X	Y		Z
3"	3"	8'-6"	10'-0"	6'-0"	0'-8"	9'-2"	10'-8"	2'-3"	4'-8"	1'-9"	2'-8"	3'-3"	5'-3"	2'-8"	2'-0"	3'-0"	24"x36"	1'-0"	SEE SHEET NO. 54 FOR WALL PLATES AND BODY CLAMPS.
4"	4"	8'-6"	10'-0"	6'-0"	0'-8"	9'-2"	10'-8"	2'-3"	5'-4"	1'-9"	3'-4"	3'-3"	5'-3"	2'-6"	2'-6"	3'-0"	24"x36"	1'-0"	SEE SHEET NO. 55 FOR WALL PLATES.
6"	6"	8'-6"	11'-0"	6'-0"	0'-8"	9'-2"	11'-8"	2'-3"	5'-8"	1'-9"	3'-8"	3'-3"	5'-3"	2'-8"	2'-6"	3'-0"	24"x36"	1'-0"	USE 5/16"x 7" MIDDLE RING ON COUPLINGS.
8"	8"	8'-6"	14'-0"	6'-0"	0'-10"	9'-2"	14'-8"	2'-3"	5'-3"	2'-3"	3'-0"	3'-3"	5'-3"	2'-6"	2'-6"	3'-0"	24"x36"	1'-6"	USE 5/16"x 7" MIDDLE RING ON COUPLINGS.
10"	10"	8'-6"	14'-0"	6'-0"	0'-10"	9'-2"	14'-8"	2'-3"	4'-11"	2'-3"	3'-0"	3'-3"	5'-3"	2'-8"	2'-6"	3'-0"	24"x36"	1'-8"	USE 3/8"x 7" MIDDLE RING ON COUPLINGS.

NOTE: ARCO PRECAST VAULT 7080-M CAN BE USED FOR ALL COMPOUND METERS.

METER SIZE		WALLS						WALL DOWELS				ROOF SLAB								FLOOR SLAB																			
		AA		BB		CC		DD		EE & FF		EE ₁		EE ₂		FF ₁		FF ₂		GG		HH		JJ		KK		LL		MM		NN		OO		PP		QQ	
		BAR	DIST.	BAR	DIST.	BAR	DIST.	BAR	DIST.	BAR	DIST.	BAR	DIST.	BAR	DIST.	BAR	DIST.	BAR	DIST.	BAR	DIST.	BAR	DIST.	BAR	DIST.	BAR	DIST.	BAR	DIST.	BAR	DIST.	BAR	DIST.	BAR	DIST.	BAR	DIST.		
3"		No.4	1'-4"	No.4	1'-0"					No.5	1'-0"	2'-8"	2'-0"	3'-0"	2'-0"			No.7	1'-0"	No.7	1'-0"									No.7	No.7	1'-0"	No.5	1'-0"	No.5	1'-0"			
4"		No.4	1'-4"	No.4	1'-0"					No.5	1'-0"	2'-8"	2'-0"	3'-0"	2'-0"			No.7	1'-0"	No.7	1'-0"									No.7	No.7	1'-0"	No.5	1'-0"	No.5	1'-0"			
6"		No.4	1'-4"	No.4	1'-0"					No.5	1'-0"	2'-8"	2'-0"	3'-0"	2'-0"			No.7	1'-0"	No.7	1'-0"									No.7	No.7	1'-0"	No.5	1'-0"	No.5	1'-0"			
8"		No.4	1'-4"	No.4	1'-0"	No.4	1'-4"	No.5	1'-0"	No.5	1'-0"	3'-0"	2'-6"	3'-0"	2'-6"	No.5	1'-0"	No.5	1'-0"	No.5	1'-0"									No.5	No.7	No.7	1'-0"	No.5	1'-0"	No.5	1'-0"	No.5	1'-0"
10"		No.4	1'-4"	No.4	1'-0"	No.4	1'-4"	No.5	1'-0"	No.5	1'-0"	3'-0"	2'-6"	3'-0"	2'-6"	No.5	1'-0"	No.5	1'-0"	No.5	1'-0"									No.5	No.7	No.7	1'-0"	No.5	1'-0"	No.5	1'-0"	No.5	1'-0"

*NOTE: DIMENSION C IS A MINIMUM SUGGESTED HEIGHT.

DRAWING NO.
4.44A

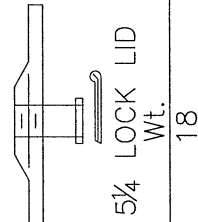
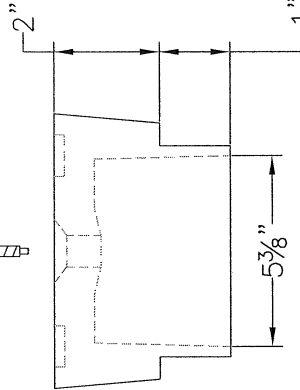
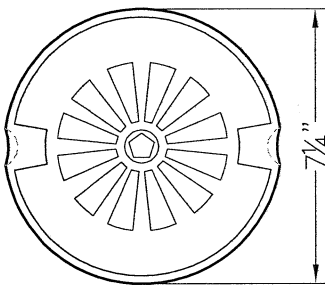
COMPOUND
METER
DIMENSIONS

BOX COMPLETE

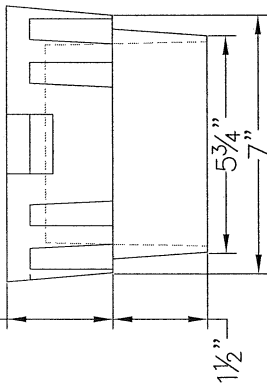
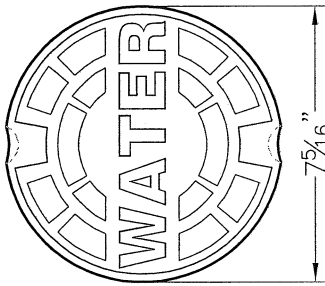
Item	EXTENSION		TOP SECTION		BOTTOM SECTION	
	In "	Wt.	L=	Wt.	L=	Wt.
C.I.-462-S	27-32	70	10	35	24	35
C.I.-562-S	27-37	80	16	32	24	35
C.I.-563-S	33-43	85	16	32	30	40
C.I.-564-S	39-50	90	16	32	36	44-45
C.I.-662-S	36-52	105	26	48-52	30	40
C.I.-664-S	39-60	110	26	48-52	36	44-48
C.I.-666-S	51-71	135	26	48-52	**48	70
C.I.-668-S	62-82	145	26	48-52	**60	80

All weights are approximate.
Lid weight: 12#-13#.

**May be furnished in two pieces screwed together to make the length required.



5/4 LOCK LID
Wt. 18



5/4 DROP LID
VARIABLE SKIRT DEPTHS
Skirt 2 Wt. 13

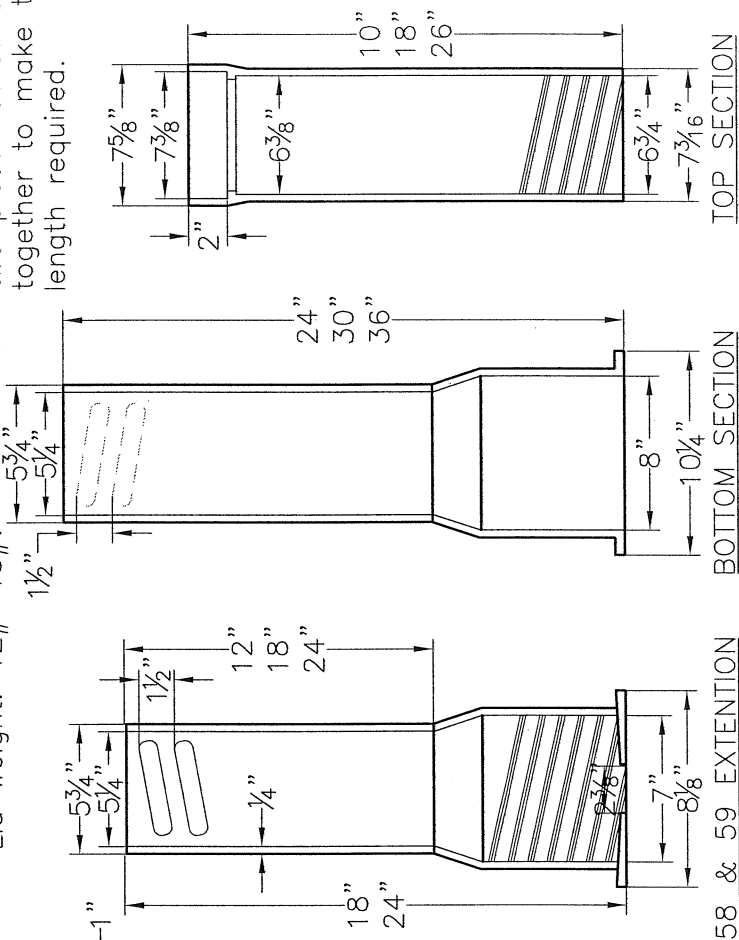
CITY OF
BRIGHTON
DEPARTMENT OF PUBLIC
WORKS

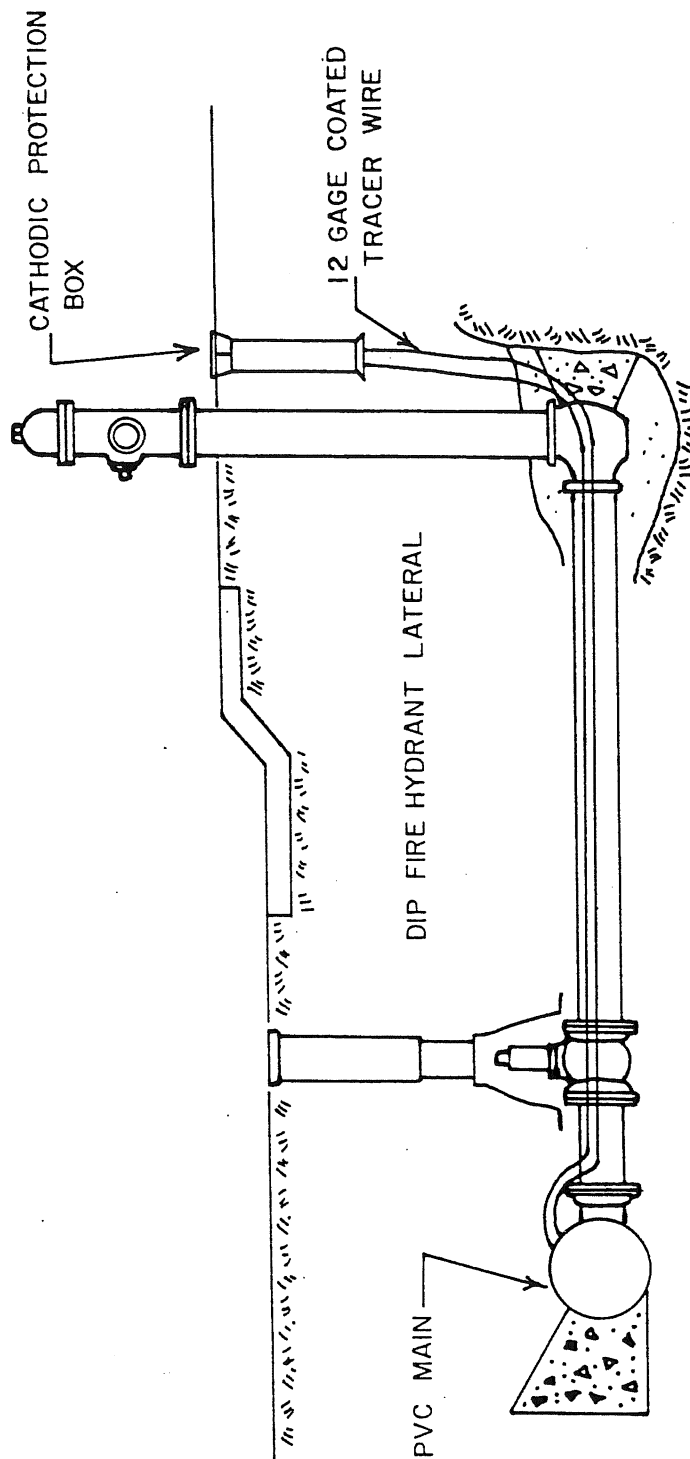
VALVE BOX

DATE 10/29/01
REVISED BY SAK

DRAWING
NUMBER

4.45





INSTALL TRACER WIRE FOR PVC WATER MAIN AND TERMINATE AT CP BOXES
AT EACH FIRE HYDRANT. PLACE ONE TO TWO FOOT OF SLACK INSIDE CP BOXES.

APPROVED
BY

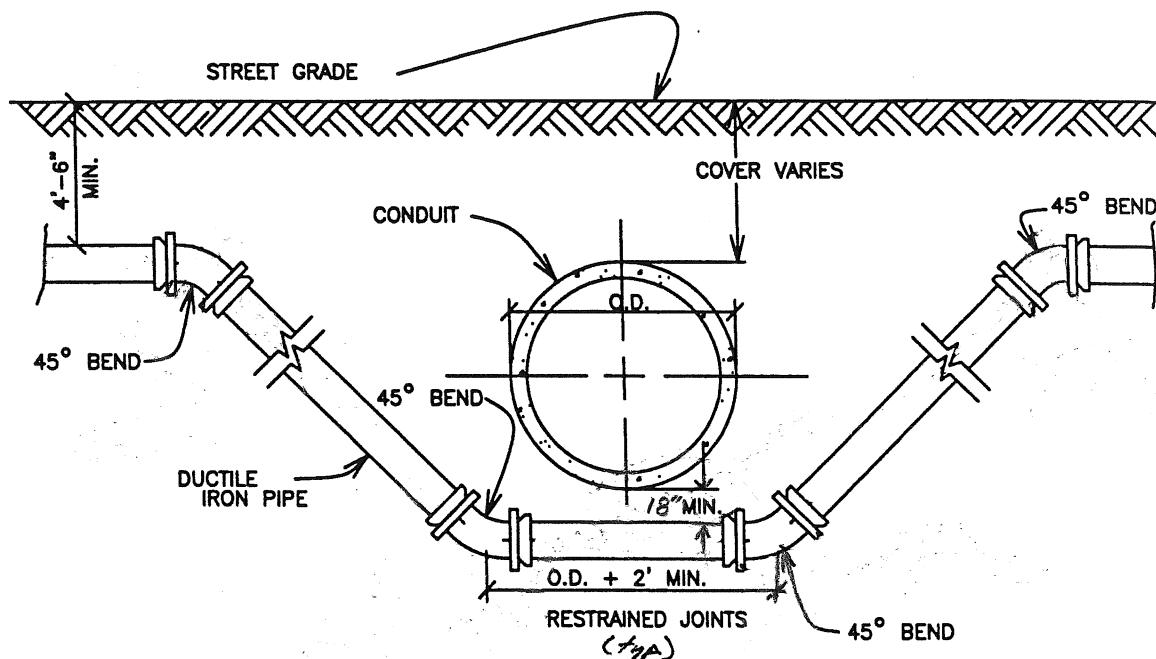
PUBLIC WORKS DEPARTMENT
CITY OF BRIGHTON-UTILITIES

TRACER WIRE INSTALLATION

DATE
10/13/97

DRAWN BY
KLM

DRAWING NO
4.46



NOTES:

- 1.) LENGTH OF EXTENSION OF PIPE AND RESTRAINED JOINTS SHALL BE IN ACCORDANCE WITH THESE ENGINEERING STANDARDS.
- 2.) ALL WATER MAINS TWELVE (12") INCHES OR SMALLER, SHALL BE DUCTILE IRON.
- 3.) CATHODIC PROTECTION SHALL BE AS REQUIRED IN ACCORDANCE WITH THESE ENGINEERING STANDARDS.
- 4.) A BORED CROSSING MAY BE REQUIRED BY THE ENGINEER.

OPEN CUT CROSSING BENEATH CONDUIT

SCALE: NONE DATE: SEPTEMBER 1997

DRN: TR: CK:

APP: 4.47